



# **LEJAY**

## **WIND ELECTRIC EQUIPMENT**

MANUFACTURERS OF  
WIND ELECTRIC EQUIPMENT, Etc.

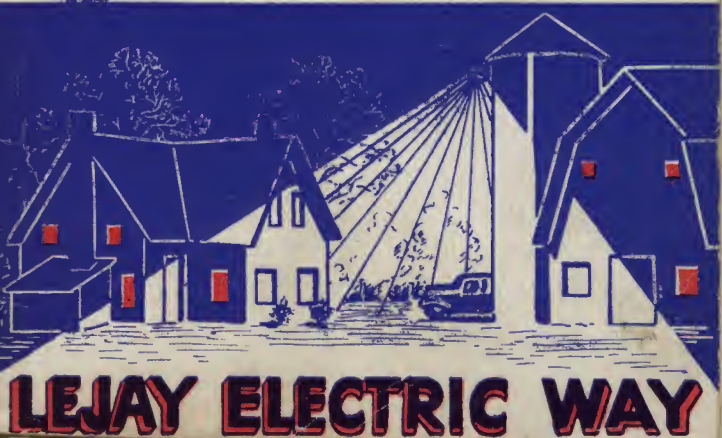
**DEAL DIRECT  
SAVE THE DIFFERENCE**

WE SHIP ALL OVER THE WORLD. REMIT  
BY INTERNATIONAL MONEY ORDER

- **ELECTRIC BATTERY RAZORS**
- **WIRE**
- **GENERATORS**
- **PROPELLORS**
- **WELDERS**
- **ELECTRIC FENCE CONTROLS**
- **LEJAY MANUAL OF 100  
GENERATOR CHANGES**

**CATALOGUE No. 27**

Summer and Fall 1940



## \*\*\*\*\* GUARANTEE \*\*\*\*\*

1. Wind Plants, Generators, Propellers and wind plant accessories are guaranteed 30 days on a satisfaction or money back basis.

2. All goods are guaranteed to reach you in good condition and to be exactly as represented in this catalogue.

3. If you are not entirely satisfied with goods purchased we expect you to immediately return same for a cash refund or exchange.

**Personal Checks** If payment is made by personal check add 5c exchange.

**On Parcel Post Shipments** be sure to include additional money in your remittance to pay postage as charges must be paid in advance.

**On Freight Shipments** if there is a freight agent at your station, you don't need to include money for freight charges. If there isn't a freight agent it is necessary to send money to prepay freight charges. Charges are the same either way.

Freight is NOT cheaper than express or parcel post unless shipment is 75 lbs. or over.

**NOTICE:** Our shipping department is acquainted with all types of transportation into your locality so unless a particular carrier is specified we select the safest and cheapest route.

### RETURNING MERCHANDISE

Materials returned for exchange or refund must be in good condition and prepaid. Please write before return is made.

### REFUNDS

If a refund is requested on returned goods you pay return transportation. Returned goods are subject to a 10% handling charge.

### NOTICE

You are to pay postage on all articles in this catalogue unless they are marked postage paid.

### F.O.B.

F.O.B. means Free On Board at Minneapolis. The letters F.O.B. as so often appearing after articles listed in this catalog means that the transportation is not paid at this end—but, that the shipment will come to you collect for the transportation charges unless you remit with your order, enough money to prepay the shipping charges. All money remitted over and above these charges will be refunded.

### CANADA AND FOREIGN COUNTRIES

Do Not Remit in foreign stamps, foreign money orders or International coupons. Make foreign remittances by International Money Order.

We do not pay postage on shipments into Canada or foreign countries. C. O. D.'s made in U. S. A. or possessions only. For parcel post into Canada, remit 14c per lb. Duty must be paid at your end.

Under the Economic and Trade Note No. 838 dated November 80, 1935, entitled "Canadian Tariff Classification of Wind-Driven Plants for Generating Power for Farm Purposes," the rates of duty are as follows:

Windmill parts including propeller, head assembly and tower—7½% duty. Generators, instrument panels, collector rings, and batteries—10% duty. You must declare these items at Customs Office "for farm purposes" in order to obtain above low rates. Radios, Fence Controllers and Welders—25% duty.

Above rates apply only when merchandise is used for farm purposes, in which case they are exempt from the consumption or sales tax.

In addition to the duty there is payable a special excise tax of 8% on the duty paid value.

The consumption or sales tax is 8% on the duty paid value.

The Safest and Best Way to Send Money is by postoffice money order, express money order, bank draft or personal check. Currency if sent by mail should be registered. If you live on a rural route you can give your order and money to your mail carrier, and he will buy the money order for you.

Prices in this catalogue cancel all prices in catalogues of previous issue. Prices are subject to change without notice.

We are not responsible for goods left in our factory over 60 days.

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All Rights Reserved

by

**LEJAY MANUFACTURING CO.**

1406 West Lake Street

**Minneapolis**

**Minnesota**

"THE HOUSE OF SERVICE"





# LEJAY WIND PLANTS

## The SUPER 6

### AUTOMATIC AIR FLAP GOVERNOR

#### The LEJAY SUPER "6"

now uses a more powerful generator and more powerful propeller. Generator starts charging in a  $7\frac{1}{2}$  mile wind with a maximum of 18-20 amperes in a 20 mile wind. Propeller is of Air-Foil type full 6 feet long, made of Douglas Fir, copper sheathed and tipped.

LeJay's SUPER "6" is guaranteed 60 days on a satisfaction or money back basis. The generator is guaranteed for one year if not run on open circuit.

Two Collector Rings completely enclosed for protection against dust, frost, ice, etc. Double carbon brushes on each ring assures perfect contact at all times. Radio interference eliminated by condenser and special ground strap. Instrument panel includes heavy duty cut-out, ammeter, connecting terminals plainly marked and completely wired ready for use.

Picture shows the LeJay SUPER "6" with air-brake governor ready to install. Enjoy the advantages of electric lights, radio, etc., as thousands of other LeJay Customers are doing all over the world. Do away with troublesome kerosene lamps. Make extra money charging batteries for your neighbors.

See next page for pictures of governor in action.



No. 519—LeJay SUPER 6 Volt Wind Plant complete with air-brake governor, instrument panel and 6 foot tower. Shipping weight 73 pounds. You pay transportation. **\$21.45**

No. 519B—Same as 519 except includes a 10 foot tower. Shipping weight 86 pounds. You pay transportation. **\$23.95**

I recently purchased one of your 6 volt Hy-Tower Wind-chargers and it surely works fine. It charges in a very light wind and governs very well in high winds.

Mr. B. C. Van Hook, North Dakota.

# LEJAY MANUFACTURING CO.

# LEJAY WIND PLANT

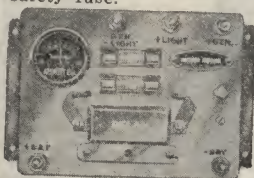
## The WIND-KING 32

The LeJay Wind King "32" is an efficient, dependable. LOW COST unit designed for locations where only light electrical loads are desired. Will provide Lights for the house, yard and barn, operate a radio, and in good wind areas will run electrical appliances such as washer, vacuum cleaner and fans. Starts charging in a  $7\frac{1}{2}$ -mile breeze and has a top output of 14 amperes in a wind velocity of 20 miles per hour. Especially recommended as an auxiliary to gas engine plants. Will save enough in gas and oil to pay for itself in a short time.

32 VOLT  
**LEJAY**  
AIRCHARGER  
500 WATT

### INSTRUMENT PANEL

Black enamel finish. Thoroughly insulated and completely wired. Equipped with automatic relay, ammeter and double safety fuse.



**Propeller.** Eight-foot propeller. Machine made. Perfectly balanced. Copper-armoured leading edges and copper-banded tips.

**Generator.** Specially designed and built for wind-electric purposes. Full 500-watt capacity.  $7\frac{1}{2}$  inches in diameter. All bearings grease-sealed.

**Collector Ring.** Completely enclosed for protection against dirt, frost, and ice. Equipped with double carbon brushes.

**Mountings.** Supplied with  $5\frac{1}{2}$ -foot stub tower to fit on LeJay Sectional Towers as shown on page 6 or with windmill adapter to fit on any standard 8 or 4 leg windmill tower.

**No Radio Interference.** Condensers on generator and special ground spring inside generator eliminate radio interference.

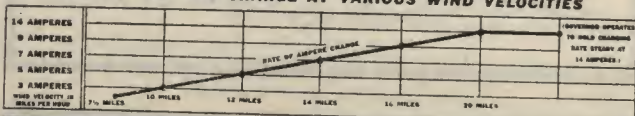
**No. 221—LeJay Wind King 32 Volt 500 Watt Wind Plant as shown.** Complete with instrument panel, ready to mount and connect to batteries. Includes 5 ft. stub tower or mast head to fit any 3 or 4 legged tower. Shipping weight 190 pounds.

You pay transportation.....

**\$58.45**

(Towers for above plant available in heights up to 80 feet—see page 6. Storage batteries are shown on page 6 and 7.)

### RATE OF AMPERE CHARGE AT VARIOUS WIND VELOCITIES



### AUTOMATIC AIR FLAP GOVERNOR



"NORMAL"

Automatic Governor operates by centrifugal force. Whenever wind velocity exceeds 20 miles per hour the governor flaps open and spread wind away from the propeller blades.



"GOVERNING"

**LESS THAN PENNY A DAY**

POWER  
OPERATING  
COST

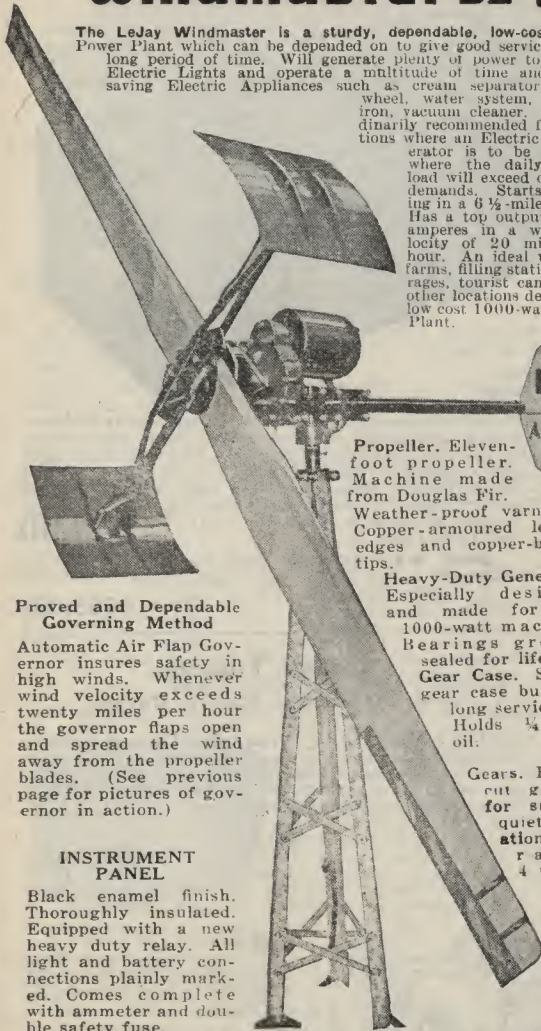


# LEJAY WIND PLANTS

## The Windmaster 32



The LeJay Windmaster is a sturdy, dependable, low-cost Farm Power Plant which can be depended on to give good service over a long period of time. Will generate plenty of power to furnish Electric Lights and operate a multitude of time and labor-saving Electric Appliances such as cream separator, emery wheel, water system, washer, iron, vacuum cleaner. Not ordinarily recommended for locations where an Electric Refrigerator is to be used or where the daily power load will exceed ordinary demands. Starts charging in a 6 1/2-mile breeze. Has a top output of 25 amperes in a wind velocity of 20 miles per hour. An ideal unit for farms, filling stations, garages, tourist camps and other locations desiring a low cost 1000-watt Light Plant.



32 VOLT  
**LEJAY**  
AIRCHARGER  
1000 WATT

**Propeller.** Eleven-foot propeller. Machine made from Douglas Fir. Weather-proof varnished. Copper-armoured leading edges and copper-banded tips.

**Heavy-Duty Generator.** Especially designed and made for this 1000-watt machine. Bearings grease-sealed for life.

**Gear Case.** Sturdy gear case built for long service life. Holds 1/4 pint oil.

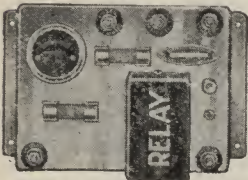
**Gears.** Helical cut gears for smooth, quiet operation. Gear ratio 4 to 1.

### Proved and Dependable Governing Method

Automatic Air Flap Governor insures safety in high winds. Whenever wind velocity exceeds twenty miles per hour the governor flaps open and spread the wind away from the propeller blades. (See previous page for pictures of governor in action.)

### INSTRUMENT PANEL

Black enamel finish. Thoroughly insulated. Equipped with a new heavy duty relay. All light and battery connections plainly marked. Comes complete with ammeter and double safety fuse.



No. 222—LeJay Wind Master 32 Volt 1000 Watt Wind Plant as shown. Complete with instrument panel, ready to mount and connect to batteries. Includes 5 ft. stub tower or mast head to fit any 3 or 4 legged tower. Shipping weight 250 lbs.

You pay **\$99.50**

(Towers for above plant available in heights up to 80 feet.)

see page 6; Storage batteries are shown on page 6 and 7.)

### RATE OF AMPERE CHARGE AT VARIOUS WIND VELOCITIES



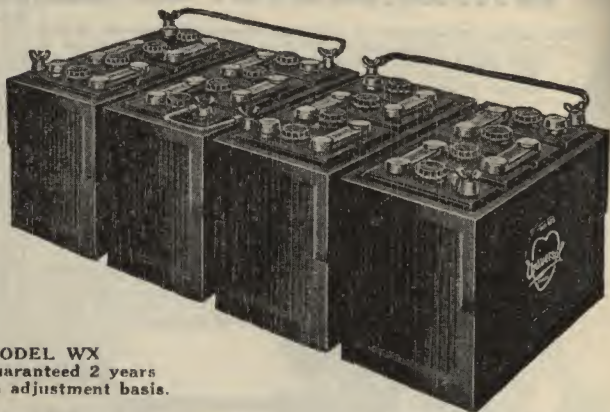
# LESS THAN PENNY A DAY

POWER  
OPERATING  
COST

# UNIVERSAL BATTERIES

## for Farm Light and Power

There are no finer, huskier, longer lived batteries available than the Universal. Why gamble with "price batteries" or batteries of unknown reputation when a reliable Universal costs so little. Nationally advertised.



**MODEL WX**  
Guaranteed 2 years  
on adjustment basis.

**Model WX—32 Volt.** Especially built for farm lighting and recommended where space is limited. Genuine hard rubber containers—8 volts; 15 plates per cell. Capacity 126 ampere hours on farm light intermittent rating. Designed for use with models 221 and 222 Wind Plants. Weight of each unit, 62 lbs. Length 13 3/8"; width 7"; height 10". Shipping weight 265 pounds. You pay transportation . . . . . **\$46.50**

**Model WX—110 Volt.** Includes 13 units 8 volts each and 1 unit of 6 volts—total of 110 volts. Shipping weight 925 pounds. You pay transportation . . . . . **\$158.00**

## LeJay Towers

Are Economical, Strong, Durable

**LeJay's Mast Type Triangular Guyed Towers** as shown at left, are properly designed and manufactured for your particular requirements in supporting any of LeJay's 32 Volt Wind Plants. Only the best of materials and workmanship used.

### ■ LEGS

The legs are of special 60 degree channel (Patent Pending). Stronger than any angle iron of same weight.

### ■ BRACING

Flat steel Braces and Cross Braces, properly trussed, make this tower very strong and rigid.

### ■ GALVANIZING

Hot Dipped—giving the tower a heavier RUST PROOF coat.

### ■ ERECTION

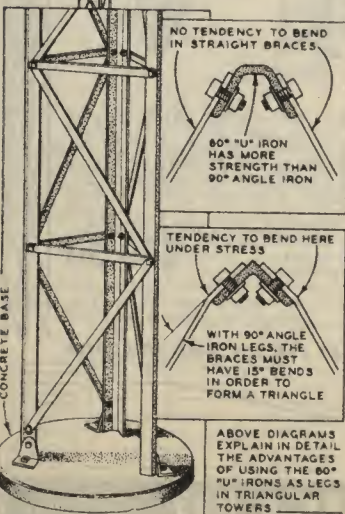
Towers are shipped in knocked down 20 foot sections and are very easily erected.

**No. 40—LeJay's MAST TYPE Triangular Guyed Tower**—complete with cross-braces guy wires and bolts. No platform included. Supplied in four sizes. Specify size when ordering.

Height	Ship. Wt.	Price
20 ft.	125 lbs.	\$10.90
40 ft.	236 lbs.	21.75
60 ft.	347 lbs.	32.60
80 ft.	458 lbs.	43.50

You pay transportation.

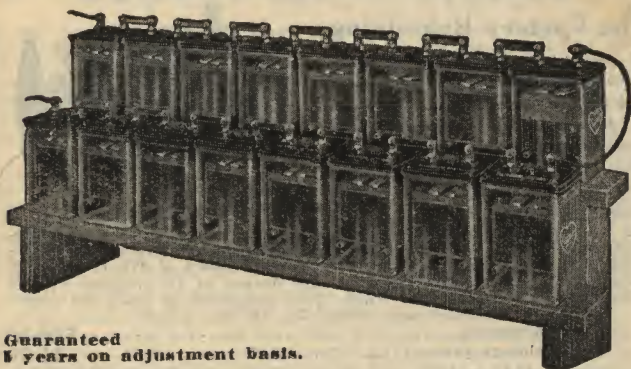
GUY WIRES ARE PLACED  
ACCORDING TO THE  
DIRECTIONS — THE  
NUMBER OF WIRES IS  
DECIDED BY HEIGHT OF TOWER





## UNIVERSAL NU-SEAL BATTERIES

A Quality Battery, built to last. Universal has earned the reputation of leadership in farm lighting and has given its users more battery per dollar for years.



**Guaranteed  
5 years on adjustment basis.**

Built big and rugged, with genuine materials generously used, Universals are economical to use because they require less frequent charging.

Batteries are built to be used up, you know. The life of a battery is measured by the number of times it is completely charged and discharged. Batteries built big for their rated capacities need less frequent charging, and therefore last longer. Moreover, they need less attention, give more dependable service, while they last. That's why quality batteries are so much cheaper in the long run. That's why the finest batteries you can buy are the most economical of all! **BUY UNIVERSAL!**

Model Number	Watt Hr. Capacity	No. Plates Per Cell	Approx. Ship. Wt.	Price for 16 Cells (32 Volts)
L-7	2784	7 Heavy	595	\$ 82.75
L-9	3712	9 Heavy	625	93.50
L-11	4640	11 Heavy	800	112.50
L-13	5600	13 Heavy	825	122.60

## NATIONAL BATTERIES

**Developed for Wind and Gasoline Powered Chargers**



Now you can always enjoy your favorite radio program. No more need to worry about a dead battery. National batteries have plenty of reserve power for your radio, lights and power driven machines. These batteries with their large heavy plates provide an ideal reservoir for all electricity available from wind chargers, and provide power for you over long periods of calm weather. **Guaranteed 2 years on adjustment basis.**

Model No.	Radio Amp. Hr. Cap.	Plates Per Cell	Type of Case	Approx. Ship. Wt.	Price
13-1	105	13 heavy	Rubber	38 lbs.	\$ 8.65
15-1	120	15 heavy	Rubber	43 lbs.	10.25
17-2	145	17 heavy	Rubber	47 lbs.	11.75

## FARMLITE GLASS JAR BATTERIES

Your lighting plant can be no more efficient than the battery you use with it. If you haven't chosen the right size and type of battery, don't expect the right kind of service. LeJay offers you the following Farmlite Glass Jar Batteries that are the right type for your plant. **Guaranteed 5 years on adjustment basis.**



Model Number	Watt Hr. Capacity	No. Plates Per Cell	Approx. Ship. Wt.	Price for 3 Cells (6 Volts)
9SZR	744	9 heavy	150 lbs.	\$19.95
13SYR	1116	13 heavy	180 lbs.	24.10
15SZR	1302	15 heavy	210 lbs.	27.85

We recommend one of the following types: 17-2, 13SYR, 15SZR if used for radio only. Where lights are also wanted then we recommend two of any above listed types connected in parallel. This will carry you through low wind periods.

All above prices are F.O.B. warehouses at the following points: Minneapolis; Chicago; Kansas City; New York and Los Angeles.

# LEJAY. Generators

GUARANTEED

## The Factory Rebuilding

of generators is one of LeJay's specialties. Experts test each part, and replace those found to be worn or defective. The completed machine must pass the same five rigid tests applied to brand new generators, after which it carries the same guarantee.



**\$21.00**  
EXCHANGE

- No. 403A—32 Volt Slow-Speed 600 Watt Generator on Dodge Frame.  
\* Equipped with New 49 bar Slow-Speed commutator and special Slow-Speed brushes. This generator has a cut-in speed of 270 r.p.m. (6-8 mile wind), and attains its maximum output of 15 amperes at 600 r.p.m., or in a 16-18 mile wind. This generator is built for direct propeller drive only. Ship. Wt. 48 lbs., F.O.B. Minneapolis ..... \$26.50  
Exchange price, F.O.B. Minneapolis ..... 21.00  
Propeller 652 or 23SG and cutout 5E23 recommended for 403A.

- No. 041—6 Volt Slow Speed 35 Ampere Generator made from Dodge frame. Has cut-in speed of 860 r.p.m. (7-9 mile wind). Maximum at 650 r.p.m. (17-20 mile wind). Will charge up to six batteries. Made for direct drive propeller or for  $\frac{1}{4}$  H.P. engine. Ship. wt. 46 lbs. F.O.B. .... \$18.75  
Exchange price, F.O.B. Minneapolis ..... 14.95

- No. 414—6 Volt Slow Speed 35 ampere Generator made from Dodge frame. Has cut-in speed of 290 r.p.m. (6-8 mile wind) with maximum output at 600 r.p.m. (17-20 mile wind). Will charge up to six batteries. Made for direct drive propeller or for  $\frac{1}{4}$  H.P. engine. Ship. Wt. 46 lbs. F.O.B. .... \$23.50  
Exchange price, F.O.B. Minneapolis ..... 19.50

- No. 1414—Same as 414 except wound for extra slow speed work where winds are not so strong. Cut-in speed 175 r.p.m. (5-7 mile wind) with maximum of 85 amperes at 600 r.p.m. (16-18 mile wind). Ship. Wt. 48 lbs. F.O.B. .... \$24.50  
Exchange price, F.O.B. Minneapolis ..... 20.25  
Propeller 652 or 23SG, cutout 5E77 recommended for these three.

- No. 1212—12 Volt Slow Speed 25 ampere Generator made from Dodge frame. Has cut-in speed of 290 r.p.m. (6-8 mile wind) with maximum output at 600 r.p.m. (17-20 mile wind). Will charge up to four 12 volt batteries at a time. Made for direct drive propeller or 1 H.P. engine. Ship. Wt. 46 lbs. F.O.B. Mpls. .... \$23.50  
Exchange price, F.O.B. Minneapolis ..... 19.50

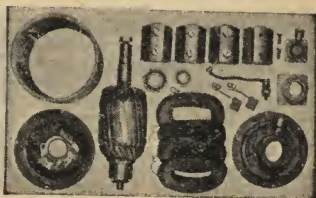
- No. 0202—Same as 1212 except wound for extra slow speed work where winds are not so strong. Cut in speed 215 r.p.m. (5-7 mile wind) with maximum of 25 amperes at 600 r.p.m. (16-18 mile wind). Charges up to four 12 volt batteries at one time. Ship. wt. 48 lbs. F.O.B. .... \$24.50  
Exchange price, F. O. B. Minneapolis ..... 20.25  
Propeller 652 or 23SG, cutout 5E08 recommended for 1212, 0202.

- No. 410—110 Volt D.C. 750 Watt Generator made from Dodge frame. Same construction as 403A. When driven by wind a reduction of  $2\frac{1}{2}$  to 1 is recommended—a  $1\frac{1}{2}$  H.P. engine may also be used. Has cut-in speed of 600 r.p.m. with maximum output at 1200 r.p.m. Ship. wt. 46 lbs. F.O.B. .... \$26.50  
Exchange price, F.O.B. Minneapolis ..... 21.00  
Cutout 5E10 recommended for this generator, also propeller 652A or 27SG if generator is used in reduction drive plant.

**\* SAVE \$5.00 \***

### ASSEMBLE YOUR OWN

Generators and Motors Marked by the star may be purchased in Kit form, at \$7.00 less than the list prices. These Kits complete in every way. Nothing else to buy. No other generators or motors sold in kit form—just those marked by the star (\*). There are no exchanges allowed on kits.



I received your Manual a short time ago and am well pleased with it, it is very plain and easy to understand.

C. G. S.—Fenelton, Pa.

**LEJAY GUARANTEED GENERATORS**



# LEJAY. GUARANTEED Generators

\* No. 551—110 Volt A.C. 750 Watt Generator made from Dodge frame. Same construction as 403A. Delivers enough current to light 25 to 30 of the 25-watt bulbs or 20 to 25 bulbs and radio or equivalent. Develops 60 cycles at 1800 r.p.m. To be excited by 6 volt battery or generator requires  $1\frac{1}{2}$  H.P. to operate. Ship. Wt. 48 lbs. **\$26.50**  
F.O.B. Minneapolis .....

Exchange price, F.O.B. Minneapolis..... **21.00**

Must be engine driven. Not built for use in a wind plant.

\* No. 402A—32 Volt 800 Watt Generator made from Dodge frame. Same construction as 403A. Is capable of delivering 800 watts if used in a wind plant and a reduction drive of 4 to 1 is recommended. When run by  $1\frac{1}{2}$  H.P. engine it is capable of producing 750 watts at 1100 r.p.m. Ship. wt. 48 lbs. F.O.B... **\$26.50**  
Exchange price, F.O.B. Minneapolis..... **21.00**

Cutout 5E23 recommended for this generator, also propeller 652A or 27SG if generator is used in reduction drive plant.

No. 155—110 Volt A.C. 500 Watt Self-Excited Generator made from Dodge frame. Same construction as 403A. Requires  $1\frac{1}{2}$  or 2 H.P. to operate and develops 60 cycles at 1800 r.p.m. Ship. **\$29.50**  
Wt. 48 lbs. F.O.B. Minneapolis.....  
Exchange price, F.O.B. Minneapolis..... **23.90**

Note—Generators 550, 551 and 155 are made for constant speed; do not run by wind propeller.

\* No. 2116—6 Volt Generator made from Dodge frame. Uses original armature and special field coils. Especially made for use in conjunction with LeJay's High Speed Drive Unit No. TD4 as shown on page 19. With a 5" pulley on this generator the propeller cut-in speed, on High Speed Drive Unit, will be 216 r.p.m. and maximum generator output of 50 amperes will be attained at a propeller speed of 550 r.p.m. This generator can also be operated by gasoline or water power. Requires

$\frac{3}{4}$  H.P. for maximum efficiency and makes a very desirable constant speed installation  
Ship. Wt. 47 lbs. **\$16.75**  
F.O.B. Mpls. ....

Exchange price, F.O.B. **14.00**

Propeller combination No. 27SG is recommended.



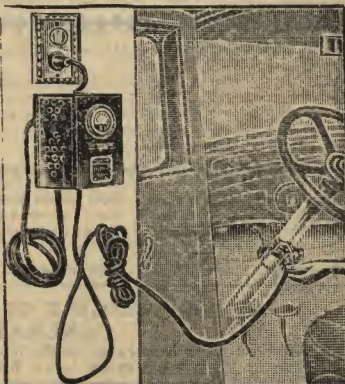
Generators run by engine can also be run by water-wheel.  
Generator prices do not include propeller hub. (See page 14.)

## 110 Volt Battery Charger

This low priced charger is for use on 110 volts A.C.—is of the dry rectifier type, having no vibrating points to wear out or bulb to replace. Is quiet and does not cause radio interference. Ideal for charging car battery without removing from the car; or, for charging radio batteries. Just plug into light socket and connect to battery—no attention—no upkeep cost.

No. 6T3—Charger with dash connections for charging batteries in or out of car. Rate is 6-3 amperes. Ship. wt. 9 lbs. F.O.B. .... **\$7.90**

No. 4T2—Charger with dash connections for charging batteries in or out of car. Rate is 4-2 amperes. Ship. wt.  $7\frac{1}{2}$  lbs. F.O.B. .... **\$5.45**



## IMPORTANT NOTICE

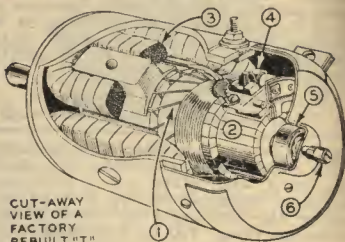
Exchange Generators: We only accept the Northeast 12 volt Dodge generators (model "G" or "GA") in exchange for Dodge generators. Ford "T" generators toward "T" generators. They must be shipped to us prepaid otherwise refused. Exchange generators sent to us must be complete or deductions will be made for missing parts. Generators are not taken in trade toward other merchandise.

**ASSURE PERFECT PERFORMANCE**

# LEJAY. GUARANTEED Generators



1. Armature rebuilt and rewound.
2. Commutator refinished or replaced.
3. Oversize field coils.
4. New special brushes.
5. Ball bearings at both ends of shaft.
6. Oil reservoir at each bearing.



CUT-AWAY  
VIEW OF A  
FACTORY  
REBUILT "T"

**No. 405—6 Volt Slow Speed Generator** made from Ford "T" frame. Has cut-in-speed of 400 r.p.m. (7-8 mile wind) and delivers maximum of 10 amperes at 900 r.p.m. (17-20 mile wind). Will charge one or two batteries at a time. Made for direct drive propeller. Ship. Wt. 17 lbs. F.O.B. .... **\$5.95**  
Exchange price F.O.B. .... **4.80**

Cutout 5E66 or 5E05 recommended.

**No. 1405—Same as 405 except has new (LeJay designed) field coils** for extra slow speed cut-in with high current output. Cut-in speed 290 r.p.m. (5-7 mile wind) with maximum output of 15 amperes at 900 r.p.m. (16-19 mile wind). Will charge up to three batteries at a time. Ship. wt. 18 lbs. F.O.B. Minneapolis. .... **\$7.50**  
Exchange price, F.O.B. Minneapolis. .... **6.25**

Cutout 5E05 recommended for this generator. To be operated only with wind propeller. Do not run with engine. Propellers 559, 670, 20SG or 21SG are recommended for above two generators.

**No. 332—32 Volt 150-200 Watt Generator** made from Ford "T" frame. To be driven by wind or  $\frac{1}{2}$  H.P. engine. When wind driven a reduction of  $2\frac{1}{2}$  to 1 is advisable. Cut-in speed 550 r.p.m. (generator speed) with maximum output at 1250 r.p.m. Ship. **\$7.50**  
Wt. 17 lbs. F.O.B. Minneapolis. .... **6.25**  
Exchange price, F.O.B. Minneapolis. .... **6.25**

Cutout 5E64 recommended for this generator, also propellers 652 or 23SG if used in reduction drive wind plant.

**No. 550—110 Volt A.C. 150-200 Watt Generator** made from Ford "T" frame. Requires  $\frac{1}{2}$  to  $\frac{3}{4}$  H.P. engine to operate and is excited by 6 volt battery. Delivers enough current to light 6 of the 25 watt bulbs and radio or equivalent. Develops 60 cycles at 1800 r.p.m. Also suitable for animal clippers. Shipping weight **\$6.35**  
16 pounds. You pay transportation. .... **5.10**

**No. 310—Complete 110 volt A.C. plant** including the following items:

- 1 No. 348P Voltmeter
- 1 No. 550 Generator
- 1 No. W2 Voltage Control Rheostat

See Plan 1 LeJay Manual for further information. Complete plant. Ship. wt. 18 lbs., F.O.B. .... **\$11.25**

**No. 553—110 Volt A.C. 200 Watt Generator** made from Ford power-house frame. Suitable for automobile operation to operate sound equipment, A.C. radios, animal clippers, etc. 60 cycles at 1200 r.p.m. to be separately excited by car battery. Ship. wt. 17 lbs. **\$7.45**  
Exchange price, F.O.B. Minneapolis. .... **6.10**

## LEJAY'S 6-V. ENGINE OR REDUCTION DRIVE GENERATORS

**No. 2405—6 Volt Generator** made from Ford "T" frame. Has new extra large field coils and new heavy duty armature. Especially made for continuous duty. To be run by  $\frac{1}{2}$  H.P. engine. Cut-in speed is about 700 r.p.m. with maximum output of 20-25 amperes at any speed between 1600 and 2000 r.p.m. Third brush control makes it ideal for controlling output. If used as a wind plant a reduction of  $2\frac{1}{2}$  to 1 is recommended for which Propeller No. 642—6 foot can be used. Less pulley. Ship. wt. 17 lbs. F.O.B. .... **\$7.50**  
Exchange price, F.O.B. Minneapolis. .... **6.25**



## IMPORTANT NOTICE

Generator exchange information on bottom Page 9.



# LEJAY. Generators

## The "Dynawind X" Series

### HEAVY DUTY FEATURES

• The very finest of materials and the most expert workmanship have been combined in the production of the "Dynawind X" Series to give you a superior machine for the generation of electricity by wind, water power or stationary engine. • Heavy cast iron square case. • Massive ventilated end caps support the JUMBO oversized bearings which are grease sealed at factory. NO OILING! • Ventilating fan that forces a stream of air through the machine continually. • Armature has oversized core and big 1" diameter shaft for long service. • Ample shaft projection, machined to take  $\frac{3}{8}$ " propeller hub with  $\frac{1}{4}$ " key. • Extra heavy field coils. • A SAFETY FUSE IN THE FIELD CIRCUIT prevents burnouts if the load becomes accidentally disconnected. • Special brushes and commutator insure smooth non-arcing commutation at any speed. • Dimensions:  $7\frac{1}{4}$ " square frame, overall length  $12\frac{1}{2}$ ". • Finished in black crackle lacquer.

This "DYNAWIND X" series of generators is the result of our years of experience in this line, and is fully guaranteed.



These generators are designed and built to stand up. They will give satisfying service for

years under trying conditions. Generators must never be run at a speed exceeding their limits.



## Three Slow Speed Models

### Absolutely TOPS in up-to-the-minute Wind Generation!

• Specially engineered for wind light plants, this fine powerful generator is designed for direct propeller drive only. The very finest of materials and the most expert workmanship have been combined in the production of the Dynawind series to give you a superior machine for the generation of electricity by wind power.

**No. X1403—32 Volt Slow Speed 750 Watt Dynawind Generator.** With its cut-in speed of 245 r.p.m. (5-7 mile wind), and its maximum output obtainable at 500 r.p.m. (16-18 mile wind), the 750 watt capacity of this Dynawind makes it a desirable POWER source for wind generation. Price includes mounting base. Shipping weight **\$39.50** 63 pounds .....  
Cutout 5E23 recommended.

**No. X6112—12 Volt Slow Speed 35 Ampere Dynawind Generator.** Developed especially for farm use where radio, lights and small motors are required. 12 volts is much easier transmitted than 6 volts (will travel farther on same size wire without as much loss). The 12 volt plant is also much less expensive than a 32 volt plant in view of battery cost and yet 12 volts gives ample power for the work required on average farm. This generator will charge up to five 12 volt batteries at a time. Cut-in speed is 235 r.p.m. (6-8 mile wind), with maximum output at 700 r.p.m. (16-18 mile wind). Price **\$39.50** includes mounting base. Shipping weight 63 pounds....  
Cutout 5E08 recommended.

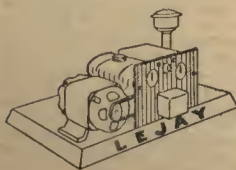
**No. X116—6 Volt Slow Speed 45 Ampere Dynawind Generator.** Developed especially for lights and radio on the farm; or for charging batteries at country garages and service stations. Will charge up to twelve 6 volt batteries at a time. Cut-in speed is 235 r.p.m. (6-8 mile wind), with maximum output at 700 r.p.m. (16-18 mile wind). Price **\$39.50** includes mounting base. Ship. wt. 63 pounds  
Cutout 5E77 recommended.

Propellers 652 or 23SG are recommended for generators X1408, X6112, and X116. Propellers 425 or 28SG are recommended for generators X10, X32, X12, and X6 when used in reduction drive plants. Caution: Do not over speed generators.

CONTINUED ON FOLLOWING PAGE

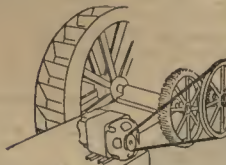
# PRECISION BUILT LEJAY Generators

The "Dynawind X" Series—Continued



## Four High Speed Models

• Especially engineered for continuous duty at high speeds. • These Dynawind models are to be powered by stationary engine or water wheel—or by wind propeller through reduction drive such as belt or gears. • Built to produce a steady flow of current the year around.



**No. X10—110 Volt D.C. High Speed 1000 Watt Dynawind Generator.** Cut-in speed is 900 r.p.m. and maximum output at 1800 r.p.m. If used in a wind plant a reduction of 4 to 1 is recommended. If used with water wheel or stationary engine 2 H.P. is required. Includes mounting base. Ship. wt. 63 lbs. **\$39.50**  
You pay transportation .....  
Cutout 5E10 recommended.

**No. X32—32 Volt High Speed 1200 Watt Dynawind Generator.** Cut-in speed is 1600 r.p.m. and maximum output at 2000 r.p.m. If used in a wind plant a reduction of 7 to 1 is recommended. If used with water wheel or stationary engine 2 H.P. is required. Includes mounting base. Ship. wt. 63 lbs. You pay transportation. **\$31.50**  
Cutout 5E24 recommended.

**No. X12—12 Volt High Speed 40 Ampere Dynawind Generator.** Cut-in speed 650 r.p.m. and maximum output at 1400 r.p.m. If used in a wind plant a reduction of  $2\frac{1}{2}$  to 1 is recommended. If used with water wheel or stationary engine 1 H.P. is required. Includes mounting base. Ship. wt. 63 lbs. You pay transportation. **\$31.50**  
Cutout 5E08 recommended.

**No. X6—6 Volt High Speed 60 Ampere Dynawind Generator.** Cut-in speed 550 r.p.m. and maximum output at 1400 r.p.m. If used in a wind plant a reduction of  $2\frac{1}{4}$  to 1 is recommended. When used with water wheel or stationary engine 1 H.P. is required. Includes mounting base. Ship. wt. 63 lbs. You pay transportation. **\$31.50**  
Two cutouts 5E77 connected in parallel recommended. By connecting in parallel doubles the capacity.

Propellers 425 or 28SG are recommended for X10 and X32 when used in reduction drive wind plant. Propellers 652A or 27SG recommended for X12 and X6 when used in reduction drive wind plant. High speed generators can also be run by water wheel.

## Three A. C. Models

**No. X1A—110 Volt A.C. 1000 Watt Separate-Excited Dynawind Generator.** Separate-excited means there is no exciting winding on the armature—field coils are to be connected to a separate source of 6 volt power such as 6 volt generator or battery. If a separate 6 volt generator is used for an exciter then it may be driven at the same time and with same engine that drives the A.C. generator. This Dynawind to be run with water wheel or stationary engine, 2 H.P. required. Develops 60 cycles at 1800 r.p.m. Price includes mounting feet. Ship. wt. 63 lbs. You pay transportation.. **\$38.50**

**No. X75—110 Volt A.C. 750 Watt Self-Excited Dynawind Generator.** To be run with water wheel or stationary engine, 2 H.P. required. Develops 60 cycles at 1800 r.p.m. Price includes mounting bracket. Ship. wt. 63 lbs. You pay transportation..... **\$42.50**

Note: X75 and X1A Dynawind Generators are excellent for farm power where 750 or 1000 watts is extent of load at one time.

**No. X15—110 Volt A.C. 150 Watt Separate-Excited Dynawind Generator.** Read details under X1A for separate-excited information. To be run with water wheel or stationary engine,  $\frac{1}{2}$  H.P. required. This frame is somewhat smaller than previous models but same general characteristics apply. Develops 60 cycles at 1800 r.p.m. Ideal for operating Animal Clippers. Price includes mounting bracket. Ship. wt. 21 lbs. You pay transportation..... **\$16.00**

Do not attempt to run any A.C. generator by wind power.

Wind charger is working good. I have a Christmas tree and my yard all lighted for kids and get a good kick out of it myself. It sure is O.K.

C. W. C.—Mill Creek, Penna.



## Farm Light Plant Combinations

### Combination "A"

Includes X1A Dynawind generator, 6 volt exciting generator, control panel, heavy cast iron base for holding generators and 2 H.P. Briggs and Stratton air cooled engine. Price includes engine. Mounted and ready to operate. Shipping weight 220 pounds.....\$122.50  
Combination "A" less engine (use your own engine). Ship wt. 110 lbs. **\$65.40**  
In combination "A" the 6 volt generator is mounted on top of the A.C. generator with pulleys of both generators in line and driven with same belt.



### Combination "B"



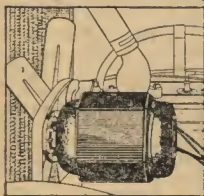
Includes X75 Dynawind generator, control panel, heavy cast iron base and 2 horsepower Briggs & Stratton air cooled engine. Mounted and ready to operate. Price includes engine. Shipping weight 205 lbs.:...\$110.50

Combination "B" less engine (use your own engine). Ship. wt. 100 lb. **\$52.50**

Where else can you buy A.C. light plants of these capacities at anywhere near the above prices?

\*\*\*\*\*

## LeJay Fan Belt Generators



• These three LeJay A.C. Generators have been designed from a practical standpoint to provide a flexible, efficient and inexpensive method of producing 110 volts A.C. on a moving vehicle. • Easily mounted on a car or truck engine, driven by the fan belt and develop up to 1000 watts (depending on model). • Being mounted on a car engine makes a portable power plant that is hard to beat—goes anywhere your car goes—taking no valuable space—and costs considerable less than other types of 110 volt A.C. plants.

No. SG15—110 Volt A.C. 150 Watt Separately-Excited LeJay Generator. Excited by either 6 or 12 volts. For operating small sound systems, testing equipment, neon signs, etc. Price includes 3 1/2" "V" type pulley and mounting brackets. Ship. wt. 21 lbs....\$16.00

No. SG100—110 Volt A.C. 1000 Watt Separately-Excited LeJay Generator. Excited by either 6 or 12 volts. For operating large sound systems, amplifiers, moving picture equipment, neon signs, flood lights, etc. Price includes 4" "V" type pulley and mounting brackets. Shipping weight 63 pounds.....\$38.50  
Specify whether to be excited by 6 or 12 volts on above models.

No. SG75—110 Volt A.C. 750 Watt Self-Excited LeJay Generator. Has self contained exciting coils. Designed for same type of duty as SG100 except for 750 watt output. Price includes 4" "V" type pulley and mounting brackets. Ship. wt. 63 pounds.....\$42.50

We recommend W1 rheostat (page 46), and 348P voltmeter (page 33), for above three model generators. All models equipped with grease-sealed ball bearings. Develop 60 cycles at 1800 r.p.m.

### Neon Signs and Flood Lights



Ideal for emergency flood-lights on fire engines, police cars, service trucks, snow plows, etc. LeJay A.C. generators are excellent for lighting neon tubing on a vehicle. Its use on different types of display trucks for carnivals, stores of all kinds, miscellaneous advertising, etc., is praised by many companies and individuals.

### For Police Cars and Sound Trucks

LeJay Generators are an ideal source of power for sound trucks and police car radio equipment as these generators produce the necessary power at very low cost and without bulky equipment. A good 750 watt light plant will cost upwards of \$265.00 and weigh up to 300 pounds.



### Ideal for Moving Picture Equipment

These generators can be easily installed on the motor of practically all automobiles and deliver unfailing dependable 110 volts at constant or variable speed. An ideal source of power for moving picture projectors or talking picture equipment. Also used for operating power tools, cooking, trailer heating, etc.



# LEJAY PROPELLERS

## SPIRAL PITCH

### NEW LOW PROPELLER PRICES

LeJay Propellers are made of the finest select Douglas Fir straight grain lumber. The Spiral Pitch of a LeJay Propeller gives it greater speed and power in average winds, quieter operation, and greater starting torque in low winds. Perfectly shaped and hand balanced. Propeller prices below include royalty which we are compelled by law to pay.

**No. 670**—Our Model 670 is the fastest wind-charger propeller we've ever known. Made of hand picked straight grain Douglas Fir, full 6 feet long and hand balanced. Equipped with copper sheathing on leading edges and copper tipped to withstand all kinds of weather including sleet and sand. Treated with 2 coats special varnish. Designed to fit generators 405, 1405, 300 and all other standard 6 volt generators. Complete with hub and hub bolts. Ship. wt. 5 lbs. F.O.B..... **\$3.40**  
Specify generator to be used on when ordering.

This propeller is also used as replacement for all popular make 6 volt wind plants such as: LeJay, Zenith, Wincharger, Parris Dunn, and others.  
Less hub, ship. wt. 4 lbs. F.O.B..... **\$2.95**

**No. 652**—LeJay's 7½ foot propeller expertly shaped especially for models X1403, X6112, X116, all Dodge slow speed generators and other 500-750 watt slow speed generators. Cut of select straight grain Douglas Fir, 1½" thick, 6" wide, and full 7½ feet long. Copper sheathed on leading edges and copper tipped. Treated with 3 coats special varnish for long continuous service. Complete with hub and hub bolts. Ship. wt. 9 lbs. F.O.B: ..... **\$7.95**  
**No. 652 less hub.** Ship. wt. 7½ lbs. F.O.B..... **\$7.10**

**No. 652A**—This Propeller is exactly like No. 652 except it is full 8 feet long, thus gaining more power at high speeds and better starting torque with more power in low winds. For generators X12 and X6 or other similar generators. Ship. wt. 10 lbs. F.O.B..... **\$9.90**  
**No. 652A less hub.** Ship. wt. 8½ lbs. F.O.B..... **\$9.10**

**No. 425**—A Special 10 Foot Spiral Pitched Propeller for reduction drive plants; to operate generators X10 and X32, also other 800 to 1250 watt generators. Also an excellent propeller for large size direct drive slow speed generators. Cut of select straight grain Douglas Fir 1½" thick. Copper sheathed and copper tipped. Treated with 3 coats special spar varnish. Complete with blank hub. You drill hub to fit your shaft. Includes hub bolts. Ship. wt. 13 lbs..... **\$15.75**  
**No. 425 less hub.** Ship wt. 10 lbs. F.O.B..... **\$14.90**

### LeJay Propeller Varnish

An extra fine quality spar varnish, which will preserve and protect your propeller.  
**No. V4**—¼ Pint can. Ship. Wt. ½ lb... **18c**  
**No. V2**—½ Pint can, Ship. Wt. 1 lb... **32c**



**You Pay Postage**

### MAKE YOUR OWN PROPELLER

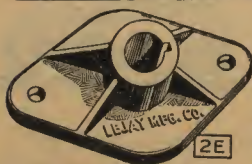
Genuine Straight Grain Redwood—Easy to Carve

Straight Grain Redwood is usually very hard to obtain, especially in the small town lumber yard so LeJay offers the following pieces at prices that really save you money. Take advantage of our large quantity purchases. Follow LeJay Plans 3, 10 or 81 when making your propeller.

**No. 6RW**—6 ft. x 4½" x ¾" redwood propeller stock. 3 lbs... **\$0.89**  
**No. 7RW**—7 ft x 5½" x 1½" redwood propeller stock. 13 lbs.. **1.98**  
**No. 8RW**—8 ft. x 5½" x 1½" redwood propeller stock. 14 lbs.. **2.19**

Above weights are shipping weights. You pay postage.

See Page 19 for propeller copper sheathing.



**No. 158**—Standard Hub to fit ¾" shafts..... **.59**  
**No. 2E**—Extra large Hub for 10, 11 and 12 foot propellers. Undrilled and not bored ..... **.85**

### PROPELLER HUBS

Low priced propeller hubs for wooden propellers. Perfectly balanced and fully guaranteed. Ship. wt. Ford and Chevy, 1 lb., Dodge, 2 lbs. You pay postage.

**No. 1PH**—Ford Powerhouse Hub... **.59**  
**No. 1T**—Ford "T" Propeller Hub... **.49**  
**No. Y2**—Dodge Propeller Hub... **.89**  
**No. 1C**—Chevrolet Propeller Hub... **.59**  
**No. 1DR**—Delco-Remy Propeller Hub **.59**

**SPIRAL PITCHED for EFFICIENCY**



# LEJAY GOVERNORS

## AIR BRAKE

### A Governed Propeller Is a Safer Propeller

In High Winds, a propeller running free and uncontrolled is likely to burst itself, due to the terrific centrifugal force set up within it. Should the propeller withstand the high wind, the generator is almost certain to have been burned out because of overspeeding.

In Gusty Winds, the resulting uneven operation cannot produce the desired steady flow of current to the battery.

Of course, A Shut-down is Provided on all LeJay Wind Plants, but there has always been the need for some protective device to save the plant from ruin in an emergency when no one is at hand to operate the hand control.

To Fill This Need, LeJay offers the AIR - BRAKE GOVERNOR. This Governor acts as a brake, beginning at a predetermined r.p.m., and as a fly-wheel for smooth power.

**All Wind Plants Regardless of the Type of Governor Used, Must Be Shut Down During a Storm.**



No. 21—LeJay 22" Governor, for 405, 1405, 300, and other standard 6 volt generators using a 5 or 6 foot propeller. Brake-flaps set to operate at 900 or 1000 r.p.m. These speeds are attained in a wind of from 18 to 22 m.p.h. Specify 900 or 1000 r.p.m. operation when ordering. This governor is not intended for the 6 volt Dodge—(see governor 22 for the Dodge generators). Complete with bolts. Weight 5 pounds. **\$2.98** F.O.B. ....

No. 22—LeJay 31" Governor for X1403, X6112, X116 generator or any rebuilt Dodge generator or other 500 to 1200 watt generators using a 7, 7½, 8 or 10 foot propeller. Brake-flaps operate at 500, 550, 600, 650, 700 r.p.m. These are speeds attained in winds of 16 to 20 m.p.h. Specify speed when ordering. Complete with bolts.

Wt. 10 lbs. F.O.B. .... **\$5.95**

**You Need No Other Governing Device When Using No. 21 or No. 22**

No. 21SG—Combination Governor No. 21 and Propeller No. 670. Complete with hub and bolts. Specify governor speed when ordering. This combination is not intended for 6 volt rewind Dodge generators—(see Combination 23SG for the Dodge). Shipping **\$5.98** weight 17 pounds. F.O.B. Minneapolis .....

No. 23SG—Combination Governor No. 22 and Propeller No. 652. Complete with hub and bolts. Specify governor speed when ordering. Ship. wt. 19 lbs. F.O.B. .... **\$13.20**

No. 27SG—Combination Governor No. 22 and Propeller No. 652A. Complete with hub and bolts. Specify governor speed when ordering. Ship. wt. 20 lbs. F.O.B. .... **\$14.95**

No. 28SG—Combination Governor No. 22 and Propeller No. 425. Complete with hub and bolts. Specify governor speed when ordering. Ship. wt. 23 lbs. F.O.B. .... **\$19.95**

No. 24S—Same as 28SG only less hub. Special for reduction drive TD4. Shipping weight 21 lbs. F.O.B. Minneapolis. **\$19.10**

How the LeJay  
AIR-BRAKE  
Governor Works



"NORMAL"

Fig. 1

Fig. 1 shows LeJay Governor in running position, the brake-flaps offering no resistance to the propeller movement. Special fins on the arms help to start in lighter winds.

Fig. 2 shows LeJay Governor in braking position. The brake-flaps, operated by centrifugal force, set up air disturbance at the propeller tips, thereby slowing it down safely.

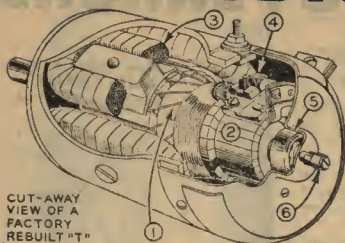


"GOVERNING"

Fig. 2

**GOVERNOR CONTROLLED for SAFETY**

# MOTORS



1. Armature rebuilt and rewound.
2. Commutator refinished or replaced.
3. Oversize field coils.
4. New special brushes.
5. Ball bearings at both ends of shaft.
6. Oil reservoir at each bearing.

**No. 706—6 Volt  $\frac{1}{8}$  H.P. 1800 r.p.m. Motor made from Ford "T" frame. Draws 9 amperes no load, 12 amperes  $\frac{1}{2}$  load, and 18 amperes full load. Ship. wt. 17 lbs. F.O.B. Minneapolis..... \$7.95**  
 Exchange price, F.O.B. Minneapolis..... 6.45

## Washing Machine Motor

**No. 712—12 Volt  $\frac{1}{5}$  H.P. 1800 r.p.m. Motor made from Ford "T" frame. Draws 9 amperes no load, and 25 amperes full load. This motor has been developed especially for washing machines. Connect two 6 volt batteries in series. As washing machines are usually turned off between tub changes this motor should give a good day's service on one battery charge. Ship. wt. 17 lbs. F.O.B. Exchange price, F.O.B. Minneapolis..... \$7.95**  
 Exchange price, F.O.B. Minneapolis..... 6.45

**No. 732—32 Volt  $\frac{1}{4}$  H.P. 1800 r.p.m. Motor made from Ford "T" frame. Draws 3 amperes no load, and 9 amperes full load. Ideal for operating washing machines. Ship. wt. 17 lbs. F.O.B. Exchange price, F.O.B. Minneapolis..... \$5.95**  
 Exchange price, F.O.B. Minneapolis..... 4.80

**No. O-48—Outboard motor of series type, wound for 6 or 12 volt use. Made from "T" generator including rewind and reconditioned armature, new brushes, new field coils, new grease sealed bearings, etc. Especially designed for Outboard Motor Use. Ship. wt. 18 lbs. F.O.B. Minneapolis..... \$8.30**  
 Exchange price, F.O.B. Minneapolis..... 6.80



## Scooter or Go-Bike Motor

**No. ER48—6 or 12 Volt Scooter or Go-Bike Motor made from Ford "T" frame. Equipped with long threaded shaft and locknut. Does not include rubber roller drive. Ship. wt. 18 lbs. F.O.B.... \$10.50**  
 Exchange price, F.O.B. Minneapolis..... \$8.95

**No. B6D—Motor with long shaft and chuck for drill as described in Plan 25, LeJay Manual. Made in 6, 12 or 32 volts. (Specify voltage wanted when ordering). No. 360 Chuck included. Shipping weight 20 lbs. F.O.B..... \$10.50**  
 Exchange price, F.O.B. Minneapolis..... \$8.95

**No. 812—12 Volt  $\frac{1}{3}$  H.P. 1800 r.p.m. Motor made from Dodge frame. Draws 5 amperes no load, and 25 amperes full load. Excellent motor for developing a little more power than Motor No. 712. Ship. wt. 48 lbs. F.O.B..... \$18.75**  
 Exchange price, F.O.B. Minneapolis..... \$14.95

**No. 842—32 Volt  $\frac{1}{2}$  H.P. 1800 r.p.m. Motor made from Dodge frame. Draws 4 amperes no load and 14 amperes full load. Ship. Wt. 48 lbs. F.O.B. Minneapolis..... \$24.50**  
 Exchange price, F.O.B. Minneapolis..... 20.25

**No. 842 Motor with variable speed control mounted on motor frame. Ship. wt. 48  $\frac{1}{2}$  lbs. F.O.B. Add \$2.00 to above prices.**

## For Cream Separator

**No. 832—32 Volt Series Motor made from Dodge frame. Runs 3000 r.p.m. no load and develops  $\frac{1}{2}$  H.P. at about 1750 r.p.m. Draws 4 amperes no load and 14 amperes full load. Because of the great amount of horsepower this motor develops at low speeds it is ideal for starting and running cream separators. Ship. Wt. 48 lbs. F.O.B. Minneapolis..... \$18.75**  
 Exchange price, F.O.B. Minneapolis..... 14.95

**No. 810—110 Volt D.C.  $\frac{1}{2}$  H.P. 1800 r.p.m. Motor made from Dodge frame. Draws 1  $\frac{1}{2}$  amperes no load and 4 amperes full load. Ship. Wt. 48 lbs. F.O.B. Minneapolis..... \$26.50**  
 Exchange price, F.O.B. Minneapolis..... 21.00

Above motor prices do not include bases or pulleys.

## MOTOR and GENERATOR BASES

Motor Bases are made especially to fit Ford "T" and Dodge frames. Easy attached. You pay postage.  
**No. TB—Ford "T" Base. Ship. wt. 2 lbs..... \$0.59**

**No. LD—Dodge base. Ship. wt. 8 lbs..... .89**

**No. CB—Chev. base ..... .59**

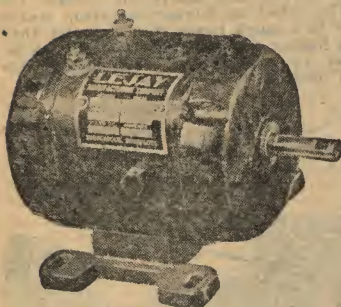
## CAUTION

On all generators a caution is made relative to maximum speeds, so be sure that your governing devices are adjusted so that these speeds are not exceeded.





# LEJAY MOTORS



**BATTERY OPERATED MOTORS** of sufficient power to operate devices where no line power is available and where small engines are now required. These Motors are built for various types of duty, as listed, and fully guaranteed.

## General Characteristics

Grease - sealed ball bearings. Large shaft, ample projection. Rotation will be clockwise unless specified counter clockwise. Large cast iron ventilated end caps. Oversize armature with large commutator. Each motor equipped with sturdy base and 3 1/2", 4" or 5" "V" type pulley.

**No. S36—6 Volt Motor 1/8 H.P. at 1800 r.p.m.** Series wound giving high starting torque. Made to operate home workshop tools, grinders, saws, etc. Equipped with base. Shipping weight 21 pounds. F.O.B. .... **\$12.50**

## Washing Machine or Refrigerator Motor

**No. S3—Combination 6 or 12 Volt Motor,** develops 1/8 H.P. on 6 volts and 1/5 H.P. on 12 volts. Made especially to operate small vehicles, lawn mowers, bicycle pushers, hedge cutters, invalid chairs, outboard motors, electric drills, grinders, etc. Equipped with base. Ship. wt. 21 lbs. F.O.B. .... **\$12.50**

**No. STRE—Combination 6 or 12 Volt Scooter or Go-Bike Motor.** Equipped with long threaded shaft and locknut. Does not include rubber roller drive. Ship. wt. 21 lbs. F.O.B. .... **\$12.50**

**No. CD12—12 Volt Motor 1/3 H.P. at 1800 r.p.m.** Developed for special applications where a little more power is required than obtained from Motor C812. Operates all types of equipment. Equipped with base. Ship. wt. 63 1/2 lbs. F.O.B. .... **\$26.50**

**No. C10—32 Volt Motor 1/5 H.P. at 1800 r.p.m.** This motor is made to operate washing machines, refrigerators, home work shop tools, electric drills, etc. Equipped with base. Ship. wt. 21 lbs. F.O.B. .... **\$12.50**

**No. CD42—32 Volt Motor 1/2 H.P. at 1800 r.p.m.** Made for all types of duty. Equipped with base. Ship. wt. 63 1/2 lbs. F.O.B. .... **\$26.50**

**No. CD10—110 Volt D.C. Motor 1/2 H.P. at 1800 r.p.m.** Made for all types of duty. Equipped with base. Ship. wt. 63 1/2 lbs. F.O.B. .... **\$26.50**

**No. C312—12 Volt Motor 1/5 H.P. at 1800 r.p.m.** Compound wound especially developed for washing machines and refrigerators. Equipped with base. Ship. wt. 21 lbs. F.O.B. .... **\$12.50**

## Cream Separator Motor

**No. SD32—32 Volt Motor 1/2 H.P.** Series wound especially developed for use on cream separators. Has very high starting torque which is required for starting separators. Equipped with base. Ship. wt. 63 1/2 lbs. F.O.B. .... **\$26.50**

**All types of Wind Plants should be shut down during storms regardless of governing principle used.**

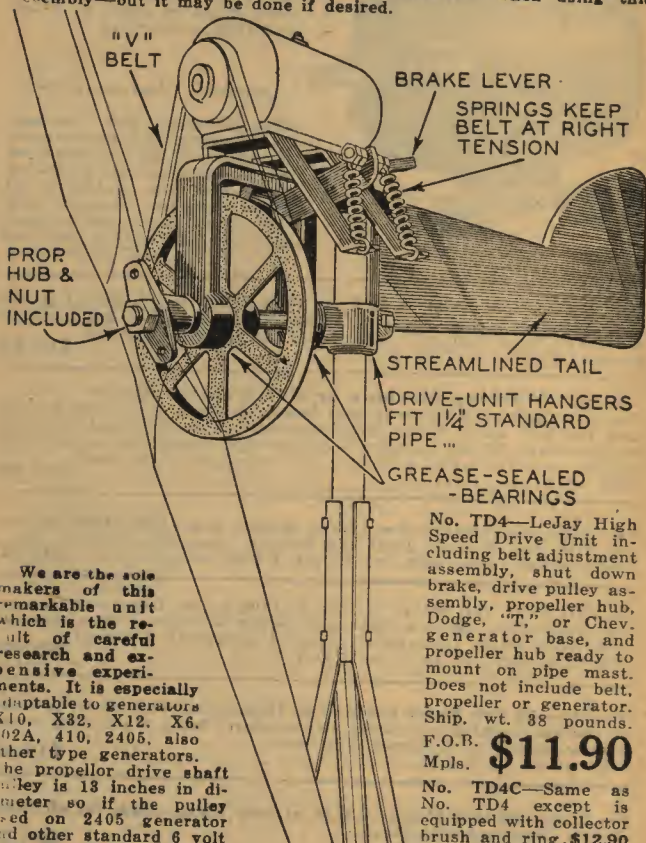
I purchased a 405 slow speed generator from you about five years ago and it has been in constant use since and still going strong Dec. 11, 1939.

B. P. D.—Rushville, Ill.

# LEJAY'S HIGH SPEED DRIVE UNIT

for All Types of Generators

Exclusive with LeJay this belt driven unit meets the demand for more power in low wind areas. The speed-up driving operation makes it possible to turn your generator in a much lower wind velocity than usually required and producing a higher rate output. It is not necessary to rewind the armature of your generator when using this assembly—but it may be done if desired.



We are the sole makers of this remarkable unit which is the result of careful research and expensive experiments. It is especially adaptable to generators X10, X32, X12, X6, 402A, 410, 2405, also other type generators. The propeller drive shaft pulley is 13 inches in diameter so if the pulley used on 2405 generator and other standard 6 volt generators is 3 1/2 inches in diameter the generators

will turn at proper speeds. A 4 inch pulley is recommended for 402A, 410 and other Dodge rebuilt generators. Propeller and governor No. 24S is recommended for the larger generators while combinations 23SG or 27SG are recommended for the standard 6 volt generators. Remember this LeJay High Speed Unit gives you more current in the same given wind—now you can always have a fully charged battery, also charge batteries for your neighbors at a profit. Put the wind to work. Note: Generator positive wire and shut-down cable go down through pipe—generator negative wire is fastened to tower at convenient place.

No. TD4—LeJay High Speed Drive Unit including belt adjustment assembly, shut down brake, drive pulley assembly, propeller hub, Dodge, "T," or Chev. generator base, and propeller hub ready to mount on pipe mast. Does not include belt, propeller or generator. Ship. wt. 38 pounds.

F.O.B. **\$11.90**  
Mpls.

No. TD4C—Same as No. TD4 except is equipped with collector brush and ring. \$12.90

Specify generator base wanted when ordering.

## SPECIAL!

Due to an over production of this model tower we are able to offer them to you at these low prices. Made especially for home-built 6 volt wind plants—can also be used for supporting radio aerials, weather vanes, etc.

FIVE FOOT TOWER

**\$2.65**

Shipping wt. 16 lbs.  
F.O.B. Minneapolis

## 5 and 6 Foot TOWERS

Constructed of 3/4" angle iron and 1" pipe—angles are fastened with 8 cross braces—adjustable feet make easy and quick mounting on flat or gable roofs. Shipped complete with all bolts, feet, cross braces and pipe.

SIX FOOT TOWER

**\$2.95**

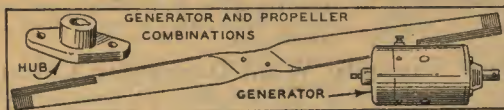
Shipping wt. 18 lbs.  
F.O.B. Minneapolis





# GENERATOR & PROPELLER COMBINATIONS

Build Your Own Wind Plant



- No. 36—Special Combination includes 6 Volt Slow Speed Generator No. 300 and Governing Propellor No. 21SG complete with hub. Ship. wt. 27 lbs. F.O.B. .... **\$13.75**
- No. 37—Special Combination includes 6 Volt Slow Speed Generator No. 1405 and Propeller No. 670 complete with hub. Ship. wt. 22 lbs. F.O.B. Minneapolis. .... **\$10.35**
- No. 38—Special Combination includes 6 Volt Slow Speed Generator No. 1405, Combination 21SG complete with hub. Ship. wt. 28 lbs. F.O.B. Minneapolis. .... **\$12.78**

## INSTRUMENT PANELS



You pay postage on all panels.

- No. 53—6 Volt 20 Ampere Instrument Panel. Includes cutout ammeter radio interference condenser, battery and generator terminal connectors, clearly marked and completely wired. 6 inches square. Ship. wt. 2 lbs. F.O.B. Mpls. .... **\$2.35**
- No. 52—6 Volt 30 Ampere Instrument Panel. Same as No. 53 except cutout and ammeter are for 30 amperes. Ship. wt. 2 lbs. .... **\$3.98**
- No. 52A—6 Volt 30 Ampere Instrument Panel including LeJay Automatic Control No. 5E21. Ship. wt. 2½ lbs. F.O.B. .... **\$6.75**  
(Panel No. 52A must be mounted within 3 to 6 feet of generator because it is necessary to connect field leads of generator to Control 5E21—connect with No. 12 wire or heavier.)
- No. 51—6 Volt 50 Ampere Instrument Panel. Ship. wt. 2 lbs. ... **\$4.49**
- No. 51A—6 Volt 50 Ampere Instrument Panel including LeJay Automatic Control No. 5E21. Ship. wt. 2½ lbs. F.O.B. .... **\$7.30**
- No. 54—12 Volt 30 Ampere Instrument Panel. 6 inches square. Ship. wt. 2½ lbs. F.O.B. Minneapolis. .... **\$4.45**
- No. 55—12 Volt 45 Ampere Instrument Panel. Ship. wt. 2½ lbs. **\$4.75**
- No. 68PA—32 Volt Instrument Panel. Includes cutout 5E23, ammeter, radio interference condenser, safety fuse, battery terminals, generator terminals, and load terminals. Completely wired and clearly marked. 8 inches square. Ship. wt. 4 lbs. .... **\$6.75**
- No. 57X—Instrument panel complete with 3 ohm 25 watt rheostat and 10 feet No. 12 flexible rubber covered wire, ready for mounting on your tractor for operating lights. (See plan 42 in LeJay Manual for hook-up.) Ship. wt. 1¼ lbs. .... **\$1.95**
- No. 57W—Same as 57X except panel includes a 20-0-20 ammeter. Ship. wt. 2 lbs. F.O.B. .... **\$2.70**

You pay postage on all above panels.

Tempered Pressed-Wood For Making Your Own Panel

- No. 8TP—A piece of tempered pressed wood for assembling your own instrument panel. Undrilled. Material is very tough yet very easy to cut and drill. Ship. wt. 7 ounces. You pay postage. .... **\$0.28**

## COPPER SHEATHING



If you make your own propeller you will want to protect the leading edges and tips against sleet, sand and severe weather. LeJay sheathing is easily attached to any propeller.

- No. S6—Enough copper sheathing to cover No. 559 propeller or any other standard 6 volt propeller. Cut into four pieces. Two pieces 16"x2" for leading edges and two pieces 4"x2" for tips. Ship Wt. 1 lb. F.O.B. Minneapolis. .... **\$0.39**

- No. S7—Enough copper sheathing to cover No. 642 propeller or any other 7 foot propeller. Cut into four pieces. Two pieces 18"x2½" for leading edges and two pieces 6"x2" for tips. Ship Wt. 1 lb. F.O.B. Minneapolis. .... **\$0.55**

- No. S8—Enough sheathing for 8 foot propeller. Two pieces 20"x3" for leading edges and two pieces 6½"x2½" for tips. Ship. Wt. 1¼ lbs. F.O.B. Minneapolis. .... **\$0.69**

We do not pay postage on shipments into Canada or foreign countries. See "new" low duty rates for Canadian shipments on inside front cover.

## SPECIAL WIND GENERATOR CUTOUTS

LeJay Cutouts embody the latest improvements in construction and will adequately meet all present day wind generator requirements. The average auto generator cutout should not be used for wind generators.

### Low Capacity Wind Generator Cutouts

- 5E66—6 volt, capacity 20 amperes. Ship. wt. 8 ounces.....\$0.69  
 5E67—12 volt, capacity 20 amperes. Ship. wt. 8 ounces..... .79  
 5E64—32 volt, capacity 400 watts. Ship. wt. 1 pound..... 2.70

### Double Duty Capacity

The widespread demand for Double Duty Capacity Wind Generator Cutouts has prompted us to present the following models.

- 5E02—2 volt, capacity 30 amperes.  
 Ship. wt. 1 lb.....\$1.23  
 5E05—6 volt, capacity 30 amperes.  
 Ship. wt. 1 lb..... 1.45



5E32 and 5E10

- 5E77—6 volt, capacity 50 amperes.  
 Ship. wt. 1 lb..... 1.75  
 5E08—12 volt, capacity 45 amperes.  
 Ship. wt. 1 lb..... 1.98  
 5E23—32 volt, capacity 1,000 watts.  
 Ship. wt. 1 lb..... 3.20  
 5E24—32 volt, capacity 1800 watts.  
 Ship. wt. 1½ lbs..... 4.25  
 5E32—32 volt, capacity 2,000 watts.  
 Ship. wt. 2½ lbs.....10.50  
 5E10—110 volt, capacity 1650 watts.  
 Ship. wt. 2 lbs.....10.50

You pay postage on all cutouts.

### Constant Speed Models

The following models are made for generators driven by engines or motors where the speed is considerably faster and more constant than wind driven generators.

- 5E06—6 volt, capacity 25 amperes.  
 Ship. wt. 10 oz.....\$0.39  
 5E6—6 volt, capacity 50 amperes.  
 Ship. wt. 15 oz..... 1.60  
 5E12—12 volt, capacity 25 amps.  
 Ship. wt. 10 oz..... .60  
 5E02—12 volt, capacity 45 amps.  
 Ship. wt. 15 oz..... 1.95  
 5E16—32 volt, capacity 600 watts.  
 Ship. wt. 1½ lbs..... 2.35  
 5E26—32 volt, capacity 1000 watts  
 Ship. wt. 1½ lbs..... 3.15

You pay postage on all cutouts.



### LEJAY AUTOMATIC CONTROL UNIT

A combination Voltage Control Current REGULATOR and Generator Cutout made for 6 volt wind or gas plants. This unit prevents the generator charging rate from becoming abnormally high and harming the battery after the battery has reached a fully charged condition.

- 5E21—Control Unit including regulator and cutout. Ship. wt.  
 1½ lbs. .... \$4.35  
 5E22—Regulator less cutout. To be attached to your cutout.  
 Wt. 1 lb..... \$2.85

You pay postage on all above controls.



### SPECIAL

Reconditioned 6 volt replacement cutouts. Standard size, capacity 20 amperes. Suitable for automobile or constant speed generators.

- 5E63—Cutout ..... \$0.14  
 (Send 9c for postage.)

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I received my Manual yesterday. It is so much better than I expected I just had to write you about it.  
 E. F. Berry, Manteca, Calif.





# Readrite

## Voltmeters and Ammeters



**Finest Quality Instruments  
Easily Readable, Accurate!**

To be used with wind plants or stationary light plants.

Add 10c postage (in Canada 14c) if meter is ordered separately.  
If ordered with other merchandise figure shipping weight 12 ounces.

### D. C. Ammeters

No. 220—D.C. Ammeter with 20-0-20 scale. Panel mounting. Made for any make 6, 12, 32 or 110 volt plant that does not charge over 20 amperes. Also recommended for the following LeJay Generators: X10, 300, 403A, 410, 1405, 405, and 332..... **\$0.98**

No. 330—D.C. Ammeter with 30-0-30 scale. Panel mounting. Made for any make 6, 12, 32 or 110 volt plant that does not charge over 30 amperes. Also recommended for the following LeJay Generators: X1403, 1212, 0202, 402A, and 2405..... **\$1.45**

No. 550—D.C. Ammeter with 50-0-50 scale. Panel mounting. Made for any make 6, 12, 32 or 110 volt plant that does not charge over 50 amperes. Also recommended for LeJay Generators: X6112, X116, X32, X12, 041, 414, 1414, and 2116..... **\$2.24**

### D. C. Voltmeters

No. 335—D. C. Voltmeter with 0-8 scale. Panel mounting. Made for any 6 volt system. Also recommended for LeJay Generators: X116, X6, 300, 041, 414, 1414, 405, 1405, 2405, and 2116..... **\$0.98**

No. 316—D.C. Voltmeter with 0-15 scale. Panel mounting. Made for any make 12 volt system. Also recommended for LeJay Generators: X6112, X12, 1212, and 0202..... **\$1.19**

No. 337—D.C. Voltmeter with 0-50 scale. Panel mounting. Made for any make 32 to 40-volt system. Also recommended for LeJay Generators: X1403, X32, 403A, 402A, and 332..... **\$1.29**

No. 342—D.C. Voltmeter with 0-150 scale. Panel mounting. Made for any make 105 to 120 volt system. Also recommended for the following LeJay Generators: X10, and 410..... **\$1.94**

### A. C. Voltmeters

No. 348P—A.C. Voltmeter with 0-150 scale. Panel mounting. Made for any make 105 to 120 volt system. Also recommended for use with following LeJay Generators: X1A, X75, X15, SG15, SG100, SG75, 551, 550, 553, and 155..... **\$4.48**

No. 148—A.C. Voltmeter with 0-150 scale. Made to plug into any line socket. To be used with any A.C. system or generator as described in No. 348P..... **\$3.23**

### SPECIAL LOW PRICED AMMETER



44

No. 44—D. C. Ammeter with 20-0-20 scale, panel type; made for 6, 12, 32 or 110 volt systems that charge up to 20 amperes. A good serviceable meter..... **\$0.49**

## Meters for Welding Apparatus Listed on Page 38

### Weston Ammeters Model 354

Precision built meters with a guaranteed accuracy of approximately 5%. Polarized vane type. Panel mounting.

5E20—Weston D.C. Ammeter 20-0-20 scale for generators X10, 300, 403A, 410, 332. **\$3.50**

5E30—Weston D.C. Ammeter 30-0-30 scale for generators X1403, 1212, 0202, 402A... **\$3.50**

5E60—Weston D.C. Ammeter 60-0-60 scale for generators X6, X116, X32, X12.... **\$3.50**

You pay postage on meters. (See top of page.)



### RADIO INTERFERENCE SUPPRESSOR

LeJay Condensers are designed for light plants to suppress radio interference caused by the generator. Allows you to play radio while wind plant or other generator is charging battery without any noise in your radio. Easily installed. Just fasten condenser to generator frame and connect lead to positive terminal post.

No. 8182—6 Volt Condenser, ship.

wt. 4 oz..... **\$0.34**

No. 812—12 Volt Condenser, ship. wt. 4 oz..... **.34**

No. 8180—32 Volt Condenser, ship. wt. 5 oz..... **.39**

No. 811—110 Volt Condenser, ship. wt. 5 oz..... **.42**

Send 5c postage for above condensers.





# MAGNET WIRE

Magnet Wire Orders of \$1 or Over are Sent Postpaid

If you do not know the exact size of the wire you require, send a sample with your order. We will measure it, and then fill your order accordingly.

Prices given below are for one pound.

There is no reeling charge made on any wire order.

\*\*\*\*\*

Size	Double Cotton Covered	Plain Enamel	Celenamel	Single Cotton Enamel
6	\$0.57	\$. . . . .	\$. . . . .	\$. . . . .
7	.60	. . . . .	. . . . .	. . . . .
8	.62	. . . . .	. . . . .	. . . . .
9	. . . . .	. . . . .	. . . . .	. . . . .
10	. . . . .	. . . . .	. . . . .	.62
11	. . . . .	. . . . .	. . . . .	.63
12	. . . . .	. . . . .	. . . . .	.64
13	. . . . .	.62	. . . . .	.65
14	. . . . .	.63	.79	.66
15	. . . . .	.63	.80	.67
16	. . . . .	.64	.81	.68
17	. . . . .	.65	.82	.70
18	. . . . .	.66	.84	.72
19	. . . . .	.67	.87	.74
20	. . . . .	.68	.90	.78
21	. . . . .	.68	.93	.80
22	. . . . .	.69	.96	.83
23	. . . . .	.69	.99	.87
24	. . . . .	.70	1.02	.91
25	. . . . .	.72	. . . . .	.97
26	. . . . .	.74	. . . . .	1.02
27	. . . . .	.75	. . . . .	1.07
28	. . . . .	.76	. . . . .	1.12
29	. . . . .	.77	. . . . .	1.21
30	. . . . .	.78	. . . . .	1.31

NOTE: A 1-lb. order is required in sizes 26, 27, 28, 29, and 30.

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## LARGE QUANTITY PRICES—WE PAY POSTAGE

The above prices apply to first two pounds only. From 3 to 9 lbs. deduct 5c per lb. From 10 to 19 lbs. deduct 8c per lb. From 20 to 50 lbs. deduct 10c per lb.

These prices can be applied to an assortment of sizes, however, if you want each size on separate spools an additional charge of 15c is made for each extra spool.

Nos. 17, 18, 19 and 20 S.C.E. with tracer carried in stock at above prices.

Only S.C.E. comes in two color (with tracer).

Celenamel magnet wire is a wire insulated with a new extra THIN material made of cellulose. While the wire sizes are the same, the insulation is thinner, thus allowing more turns in a given space than s.c.e. or silk enamel, insuring maximum insulation in a minimum space.

We highly recommend the use of Celenamel for slow speed generator armatures, etc.

Celenamel or P.E. wire comes in one color only.

Wire cannot be exchanged after it has been cut to customer's order.

"No wire or construction kits sent C.O.D. without deposit."

Because of increasing demand for rewinding materials, from persons wishing to rebuild their own generators, we have assembled the following list of Kits from which to choose. Build Your Own and Save Two-Thirds the cost. See following pages.

# LEJAY MANUFACTURING CO.



# LEJAY Construction Kits

In the purchase of one of the following LeJay Construction Kits, you receive the benefit of our experience in the choice of the proper materials for the job you intend to do. In addition to the lower cost of items bought in combinations, you are allowed further cash savings on the many Kits which come to you Postpaid. All Materials in a LeJay Construction Kit are fully Guaranteed!



## Kit. No. 101—"T" to 110 volts A.C.

For changing Ford "T" generator into 110 Volt A.C. generator like our Model No. 550. Includes all materials necessary for rewinding armature. Use original field coils. Output is 150-200 watts at 110 volts. 60 cycles at 1800 r.p.m. (See Plan 1, LeJay Manual for itemized list of materials and for further information.)

Complete above kit, postage paid. . . . . **\$1.85**

## Kit No. 102—"P.H." to 110 volts A.C.

For changing Ford Powerhouse generator into 110 Volt A.C. generator for auto fan belt operation. Like our Model No. 553. Includes all materials necessary for rewinding armature. Use original field coils. Output is 200 watts at 110 volts. 60 cycles at 1200 r.p.m. (See Plan 2, LeJay Manual, for itemized list of materials and for further information.)

Complete above kit, postage paid. . . . . **\$2.18**

## Kit No. 103—"P.H." to 6 volts Slow Speed.

For changing Ford Powerhouse generator into a 6 volt slow speed generator. Cut-in speed 390 r.p.m. Maximum output 10-12 amperes. Includes all materials necessary for rewinding armature. Use original field coils. (See Plan 3A, LeJay Manual, for itemized list of materials and for further information.) Advise if your generator takes 3 or 5 brushes when ordering this kit.

Complete above kit, postage paid. . . . . **\$1.70**



## Kit No. 103A—"P.H." to 6 volts Slow Speed.

Same as kit No. 103 except it has different size wire. Cut-in speed 290 to 325 r.p.m. Maximum output 8-10 amperes. Includes all materials necessary for rewinding armature. Use original field coils. (See Plan 3B, LeJay Manual, for further information.)

Complete above kit, postage paid. . . . . **\$1.87**

## Kit. No. 104

Same as No. 103 kit, less brushes. Postpaid. . . . . **\$1.59**

## Kit No. 104A

Same as No. 103A kit, less brushes. Postpaid. . . . . **\$1.70**

## Kit No. 105—"T" to 6 volts Slow Speed.

For changing Ford "T" generator into a 6 volt slow speed generator like our Model No. 405. Includes all materials necessary for rewinding armature. Use original field coils. Cut-in speed 400 r.p.m. and maximum output 10 amperes. (See Plan 10A, LeJay Manual, for itemized list of materials and further information.)

Complete above kit, postage paid. . . . . **\$1.85**

## Kit No. 105A—"T" to 6 volts Slow Speed.

Same as kit No. 105 except it has different size wire. Cut-in speed 290 to 325 r.p.m. Maximum output 10 amperes. Includes all materials necessary for rewinding armature. Use original field coils. (See Plan 10B, LeJay Manual, for further information.)

Complete above kit, postage paid. . . . . **\$1.99**

## Kit. No. 106

Same as No. 105 kit, less brushes. Postage paid. . . . . **\$1.63**

## Kit No. 106A

Same as No. 105A kit, less brushes. Postage paid. . . . . **\$1.85**

# LEJAY MANUFACTURING CO.

# LEJAY Construction Kits

**Super DeLuxe "T" Kit to 6 Volts Slow Speed. Kit No. 107.**

For changing Ford "T" generator into a 6 volt slow speed generator like our DeLuxe Model No. 1405. Cut-in speed 290 r.p.m. (5-7 mile wind) with maximum output of 15 amperes at 900 r.p.m. (16-19 mile wind). Includes all materials necessary for rewinding armature and for making a new set of field coils, also includes 4 pole piece shims. (See Plan 10C, LeJay Manual, for list of materials and further information.) Will charge up to three batteries at one time.

Complete above kit, you pay postage. Ship. wt. 4¾ lbs. .... **\$3.44**

**Kit No. 204—Chevrolet, Autolite and Delco to 6 Volts Slow Speed.**

For changing Chevrolet, Ford "A", Plymouth, Pontiac and all other 14 slot, 28 bar, Autolite or Delco-Remy generators into a 6 volt slow speed generator. Includes all materials necessary for rewinding armature. Use original field coils. Cut-in speed 420 r.p.m. Maximum output 8-10 amperes. (See Plan 14, LeJay Manual, for list of materials and further information.)

Complete above kit, postage paid. .... **\$1.85**

**Kit No. 205**

Same as No. 204 kit, less brushes. Postpaid. .... **\$1.68**

**Kit 5012C—Dodge to 32 Volts Slow Speed.**

For changing Dodge 12 volt generator into 32 volt slow speed generator. Includes all materials necessary for rewinding armature and for making a new set of field coils. Use original commutator. Cut-in speed 350 r.p.m. Maximum output 14 amperes, 560 watts. (See Plan 5A, LeJay Manual, for list of materials and further information.)

Complete above kit, you pay postage. Ship. wt. 18 lbs. .... **\$9.95**

**Kit 41—Armature materials from kit 5012C. Ship. wt. 7 lbs. .... \$5.05**

**Kit 42—Field coil materials from 5012C. Ship. wt. 11 lbs. .... 5.70**

**Kit No. 5012B—Dodge to 32 Volts Extra Slow Speed.**

For changing Dodge generator into 32 volt slow speed generator like our Model No. 403A. Includes all materials necessary for rewinding armature and for making a new set of field coils. Also includes a new special LeJay Slow Speed Commutator. Cut-in speed 270 r.p.m. Maximum output 15 amperes, 600 watts. (See Plan 5B, LeJay Manual, for list of materials and further information.)

Complete kit, you pay postage. Ship. wt. 20 lbs. .... **\$12.95**

**Kit 78—Armature materials from 5012B.**

Ship. wt. 9 lbs. .... **\$8.20**

**Kit 79—Field coil materials from 5012B. Ship. wt. 11 lbs. .... \$5.70**



**Kit 152X—Dodge to 12 Volts Slow Speed.**

For changing Dodge generator into 12 volt slow speed generator like our Model No. 1212. Includes all materials necessary for rewinding armature and for making new field coils. Cut-in speed 290 r.p.m. Maximum output 25 amperes. (See Plan 4A, LeJay Manual, for list of materials and further information.)

Complete kit, you pay postage. Ship. wt. 16 lbs. .... **\$8.10**

**Kit 70—Armature materials from 152X. Ship. wt. 9 lbs. .... \$4.40**

**Kit 71—Field coil materials from 152X. Ship. wt. 8 pounds .... 3.90**

**Kit No. 152A—Dodge to 12 Volts Extra Slow Speed.**

For changing Dodge generator into 12 volt slow speed generator like our Model No. 0202. Includes all materials necessary for rewinding armature and for making new field coils. Cut-in speed 215 r.p.m. with maximum output of 25 amperes. (See Plan 4B, LeJay Manual, for list of materials and further information.)

Complete kit, you pay postage. Ship. wt. 18 lbs. .... **\$8.40**

**Kit 72—Armature materials from 152A. Ship. wt. 9 lbs. .... \$4.40**

**Kit 73—Field coil materials from 152A. Ship. wt. 10 lbs. .... 4.05**

**Kit No. 151—Dodge to 6 Volts Slow Speed.**

For changing Dodge generator into a 6 volt slow speed generator like our Model No. 414. Includes all materials necessary for rewinding armature and for making a new set of field coils. Cut-in speed 290 r.p.m. Maximum output 35 amperes. (See Plan 4C, LeJay Manual, for list of materials and for further information.)

Complete kit, you pay postage. Ship. wt. 16 lbs. .... **\$8.10**

**Kit 43—Armature materials from 151. Ship. wt. 9 lbs. .... \$4.40**

**Kit 45—Field coil materials from 151. Ship. wt. 8 lbs. .... 3.90**

## LEJAY MANUFACTURING CO.



# LEJAY Construction Kits

To Satisfactorily Fill Your Orders

for LeJay Construction Kits for Dodge Generators, we MUST know whether your generators require type "G," or "GA" brushes. Be sure to include this important information with your orders.

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**Kit. No. 151A—Dodge to 6 Volts Extra Slow Speed.**

For changing Dodge generator into a 6 volt slow speed generator like our Model No. 1414. Includes all materials necessary for rewinding armature and for making a new set of field coils. Cut-in speed 175 r.p.m. Maximum output 35 amperes. (See Plan 4D, LeJay Manual for further information.)

**Complete kit, you pay postage. Ship. wt. 18 pounds..... \$8.40**

**Kit 46—Armature materials from 151A. Ship. wt. 9 lbs..... \$4.40**

**Kit 47—Field coil materials from 151A. Ship. wt. 10 lbs..... 4.05**

**Kit No. 151B—Dodge to 6 Volts Slow Speed.**

For changing Dodge generator into a 6 volt slow speed generator without rewinding the armature. Includes all materials necessary for making a new set of field coils. Cut-in speed 350 to 450 r.p.m. Maximum output 35-40 amperes. (See Plan 28B, LeJay Manual, for further information.)

**Complete kit, you pay postage. Ship. wt. 10 lbs..... \$4.95**

**Kit No. 153A—Dodge to 110 Volt Alternating Current Generator.**

For changing Dodge generator into 110 volt A.C. generator like our Model No. 551. Includes all necessary materials for rewinding armature and making a new set of field coils. 700-750 watt output at 110 volts A.C. 60 cycles at 1800 r.p.m. (See Plan 11, LeJay Manual for further information.)

**Complete kit, you pay postage. Ship. wt. 12 lbs..... \$7.16**

**Kit 73—Armature materials from 153A. Ship. wt. 8 lbs..... \$2.79**

**Kit 74—Field coil materials from 153A. Ship. wt. 5 lbs..... 4.82**

**Kit No. 160—Dodge to 32 Volt 1100 r.p.m. Generator.**

For changing Dodge generator into 32 volt generator like our Model No. 402A. Includes all materials necessary for rewinding armature and for making a new set of field coils. Also includes a new Special LeJay Commutator. Delivers 20 amperes at 1100 r.p.m. 800 watts (See Plan 6A, LeJay Manual).

**Complete kit, you pay postage. Ship. wt. 18 lbs..... \$12.95**

**Kit 81—Armature materials from 160. Ship. wt. 11 lbs..... \$7.70**

**Kit 82—Field coil materials from 160. Ship. wt. 8 lbs..... 4.45**

**Kit No. 161—Dodge to 110 Volt Direct Current Generator.**

For changing Dodge generator into 110 volt D.C. generator like our Model No. 410. Includes all materials necessary for rewinding armature and for making a new set of field coils. Also includes a new Special LeJay Commutator. Delivers 750 watts at 1200 r.p.m. (See Plan 6C, LeJay Manual for information.)

**Complete kit, you pay postage. Ship. wt. 20 lbs..... \$12.45**

**Kit 85—Armature materials from 161. Ship. wt. 11 lbs..... \$7.70**

**Kit 86—Field coil materials from 161. Ship. wt. 10 lbs..... 4.95**

**Kit No. 162—Dodge to 32 Volt 1/2 Horsepower Series Motor.**

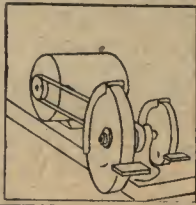
For changing Dodge generator into a 32 volt series motor like our Model No. 832. Includes all materials necessary for making a new set of field coils. Use original armature. Develops 1/2 H.P. at 1750 r.p.m. (See Plan 24, LeJay Manual.)

**Complete kit, you pay postage. Ship. wt. 10 lbs..... \$4.95**

**Kit No. 162A—Dodge to 32 Volt 1/2 H.P. Constant Speed Motor.**

For changing Dodge generator into a 32 volt constant speed motor like our Model 842. Includes all materials necessary for making a new set of field coils. Use original armature. Develops 1/2 H.P. at 1800 r.p.m. and speed remains constant. (See Plan 6B, LeJay Manual, for further information.)

**Complete kit, you pay postage. Ship. wt. 11 lbs..... \$5.15**



**Kit No. 163—Dodge to 110 Volt 1/2 H.P., D.C. Motor.**

For changing Dodge generator into a 110 volt motor like our Model No. 810. Includes all materials necessary for rewinding armature and for making a new set of field coils. Also includes a new Special LeJay Commutator. Develops 1/2 H.P. at 1800 r.p.m. (See Plan 6D, LeJay Manual, for further information.)

**Complete kit, you pay postage. Ship. wt. 20 lbs..... \$12.45**

**Kit 87—Armature materials from 163. Ship. wt. 11 lbs..... \$7.70**

**Kit 88—Field coil materials from 163. Ship. wt. 10 lbs..... 4.95**

**Kit No. 164—"T" to 6 Volt 1/8 H.P. Motor.**

Includes armature kit complete and field coil materials for making a 6 volt motor like our Model No. 706. Develops 1/8 H.P. at 1800 r.p.m. (See Plan 26, LeJay Manual, for complete list of materials and further information.)

**Complete kit. Ship. wt. 5 lbs. F.O.B..... \$3.10**

**Kit No. 165A—"T" to 12 Volt 1/5 H.P. Motor.**

Includes armature kit complete for making a 12 volt motor like our Model No. 712. Develops 1/5 H.P. at 1800 r.p.m. (See Plan 27A, LeJay Manual, for further information.)

**Complete kit. Postpaid..... \$1.85**

**LEJAY MANUFACTURING CO.**

# LEJAY Construction Kits

**Kit No. 32A—"T" to 32 Volt 1250 r.p.m. Generator.**

For changing Ford "T" generator into a 32 volt generator like our Model No. 332. Includes all materials necessary for making a new set of field coils and for rewinding the armature. Delivers 5 amperes at 1250 r.p.m. (See Plan 15, LeJay Manual, for complete list of materials and further information.)

Complete kit, you pay postage. Ship. wt. 5 lbs. .... **\$3.75**

**Kit No. 32X—Same as kit 32A except less brushes. .... \$3.60**

**Kit No. 166—"T" to 32 Volt ¼ H.P. Motor.**

For changing Ford "T" generator into a 32 volt motor like our Model No. 732, without rewinding armature. Includes all necessary materials to make a new set of field coils. Use original armature. Speed 1800 r.p.m. (See Plan 27B, LeJay Manual, for further information.)

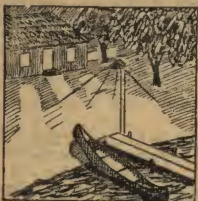
Complete kit, you pay postage. Ship. wt. 3 lbs. .... **\$1.95**

**Kit No. 0-1618—"T" to Outboard Motor.**

Includes all materials necessary for changing a "T" generator into an outboard motor like our Model No. 0-48. (See Plan 20, LeJay Manual, for complete list of supplies and further information.)

Complete kit, F.O.B., ship. wt. 5 lbs. .... **\$3.47**

**Kit. No. 0-161—Armature materials only from kit 0-1618. Ship. wt. 3 lbs. F.O.B. .... \$2.38**



## Miscellaneous Kits

The following Kits are made up so you can rewind any automobile armature for slow speed windcharger or for automobile use. There is considerable difference between the size wire used for slow speed windcharger use and that for automobile use—there is also a difference in number of turns, so be sure to state whether you wish to rewind your armature for regular automobile use or for slow speed windcharger use. On all armatures other than the "T," be sure to copy and send with your order, the number which appears on the armature laminations. It is also necessary to state number of armature slots and number of commutator bars.

**Kit. No. 170—To rewind "T" armature for automobile use.** Includes all armature materials less brushes. Ship. wt. 2 pounds

You pay postage. .... **\$1.68**

For "T" slow speed windcharger kit see No. 105.

**Kit No. 171—To rewind Autolite, Bosch, also Bosch-Autolite armatures for automobile use.** Includes all materials, less brushes.

Ship. wt. 2¼ lbs. You pay postage. .... **\$1.78**

(Mention serial number appearing on your armature core, also state total number of slots and commutator segments when ordering.)

**Kit No. 181S—For slow speed windcharger use (not including the 14 slot 28 bar).** Ship. wt. 2¼ lbs. You pay postage. **\$1.90**

For the 14-28 slow speed kit see No. 204.

**Kit No. 172—To rewind Delco also Delco-Remy armatures for automobile use.** Includes all armature materials, less brushes.

Shipping weight 2¼ pounds. You pay postage. .... **\$1.78**

(Mention serial number appearing on your armature core, also state total number of slots and commutator segments when ordering.)

**Kit No. 182S—For slow speed windcharger use (not including the 14 slot 28 bar).** Ship. wt. 2¼ lbs. You pay postage. **\$1.90**

For the 14-28 slow speed kit see No. 204.

**Kit No. 173—To rewind Ford "A," "B" and "V-8" armatures for automobile use.** Includes all armature materials, less brushes. Ship. wt. 2½ pounds. You pay postage. .... **\$1.78**

For slow speed windcharger kit see No. 204.

(Mention serial number appearing on your armature core, also state total number of slots and commutator segments when ordering.)

**Kit No. 174—To rewind Ford Powerhouse armature for automobile use.** Includes all armature materials, less brushes. Ship. wt. 2 lbs. You pay postage. .... **\$1.68**

For slow speed windcharger kit see No. 103.

**Kit No. 175—To rewind Northeast armature for automobile use.** Includes all armature materials, less brushes. Ship. wt. 2½ lbs. You pay postage. .... **\$1.78**

(Mention serial number appearing on your armature core, also state total number of slots and commutator segments when ordering.)

**Kit No. 185S—For slow speed windcharger use.** Ship. wt. 2½ lbs. You pay postage. .... **\$1.90**

Kits 175 and 185S do not apply to Dodge "G" or "GA" generators.

**Kit No. 176—To rewind Westinghouse armature for automobile use.** Includes all armature materials, less brushes. Ship. wt. 2½ lbs. You pay postage. .... **\$1.78**

(Mention serial number appearing on your armature core, also state total number of slots and commutator segments when ordering.)

**Kit. No. 186S—For slow speed use.** Ship. wt. 2½ lbs. .... **\$1.90**

**Kit No. 177—To rewind Wagner armature for automobile use.** Includes all materials, less brushes. Ship wt. 2½ lbs. **\$1.78**

(Mention serial number appearing on your armature core, also state total number of slots and commutator segments when ordering.)

**Kit No. 187S—For slow speed use.** Ship wt. 2½ lbs. .... **\$1.90**

# LEJAY MANUFACTURING CO.



# W INSIDE OR OUTSIDE WEATHER-PROOF WIRE



Made by Belden

"Do not confuse Belden Wire with other makes."

Both the solid and stranded types are suitable for inside or outside wiring. When wiring from plant to batteries, also between buildings, we recommend the use of solid. Be sure and use the proper gauge otherwise results will not be successful. (DO NOT USE TOO SMALL A GAUGE.) See page 44 (General Information) for proper wire size.

## Solid Wire

No.	Gauge	Per Ft.	100 Ft.	Ship. Wt. per 10 Ft.
140	14	1 1/4 c	\$1.15	8 oz.
120	12	1 1/2 c	1.40	8 oz.
100	10	1 3/4 c	1.70	12 oz.
800	8	2 3/4 c	2.60	1 lb.
600	6	4 c	3.80	1 1/2 lbs.
400	4	5 c	4.90	2 1/2 lbs.

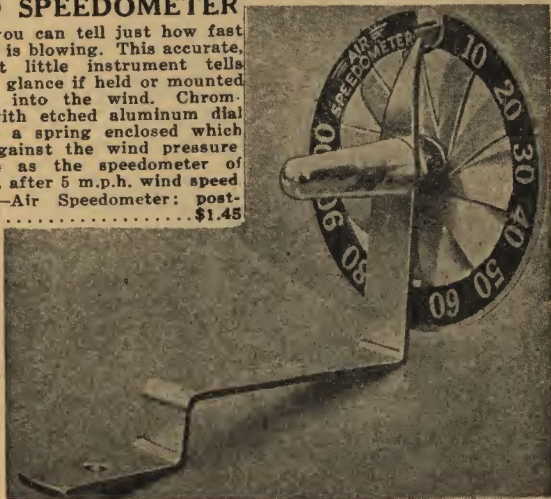
## Stranded Wire

14	14	1 3/4 c	\$1.50	8 oz.
12	12	2 1/4 c	2.00	8 oz.
10	10	3 c	2.75	12 oz.
80	8	3 3/4 c	3.50	1 lb.
60	6	5 c	4.75	1 1/2 lbs.
40	4	6 1/2 c	6.20	2 1/2 lbs.

No. X2—A special flexible, stranded, 12 gauge, rubber covered with lacquer braid hook-up wire. For connecting inside of generators, motors, etc. 4 feet. Postage paid for.....\$0.17  
100 feet, shipping weight 9 oz. You pay postage..... 2.65

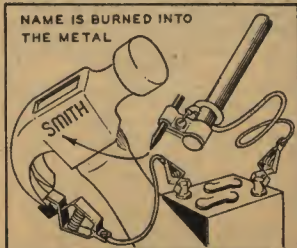
## WIND SPEEDOMETER

Now you can tell just how fast the wind is blowing. This accurate, well-built little instrument tells you at a glance if held or mounted squarely into the wind. Chrom-plated with etched aluminum dial—it has a spring enclosed which works against the wind pressure. Accurate as the speedometer of your car, after 5 m.p.h. wind speed.  
No. JF1—Air Speedometer: post-paid .....\$1.45

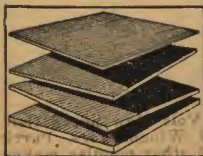


## BURN YOUR NAME ON TOOLS with the LEJAY-GRAF PEN

Protect your tools and other property from theft. Writes, marks, etches or engraves on metal with aid of electricity. Works off 6 volt battery. Writes on metal like writing on paper with pen or pencil.  
No. G86—LeJay-Graf outfit consists of 1 LeJay-Graf Pen, with 3 feet flexible lead wire and battery clip, 3 feet flexible return wire with 2 battery clips for connecting to work and battery, two extra writing points and complete set of instructions. Postage paid..\$0.94



## FIBRE SHEETS



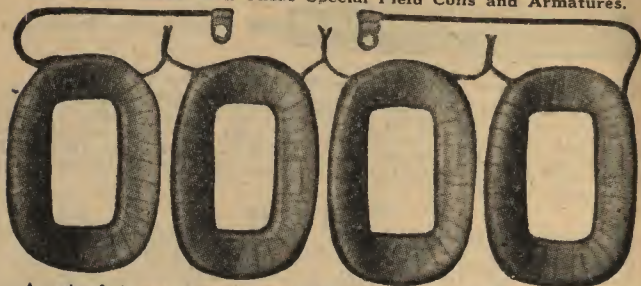
These fiber sheets are recommended for insulation purposes in making transformers, armature work, welders and wherever a good insulation sheet is required. High dielectric

1/2" thickness, per sq. ft.	\$0.27
3/8" thickness, per sq. ft.	.51
3/4" thickness, per sq. ft.	.68
1" thickness, per sq. ft.	1.02

Add 3c per sq. ft. for postage.

## DODGE FIELD COILS

The Changes Possible in the Dodge "G" and "GA" Generators Are Easily Made with These Special Field Coils and Armatures.



A set of 4 new factory made field coils for the Dodge changes, ready to install in your frame. Each set polarized and connected together. For G or GA models. Ship. wt. 9 lbs. per set. F.O.B.

No. 4A—Set of coils for 6V slow speed generator.....	\$4.85
No. 5A—Set of coils for 6V slow speed generator.....	5.95
No. 14A—Set of coils for 6V slow speed generator.....	5.95
No. 3A—Set of coils for 6V high speed generator.....	3.95
No. 1A—Set of coils for 12V slow speed generator.....	5.25
No. 2A—Set of coils for 12V slow speed generator.....	5.95
No. 7A—Set of coils for 32V slow speed generator.....	6.90
No. 8A—Set of coils for 32V high speed generator.....	6.90
No. 11A—Set of coils for 32V 1800 r.p.m. motor.....	4.85
No. 9A—Set of coils for 110V A.C. generator (Separate excited).....	5.20
No. 10A—Set of coils for 110V D.C. generator.....	5.95
No. 12A—Set of coils for 110V D.C. 1800 r.p.m. motor.....	5.95
No. 13A—Set of coils for Arc Welder (not connected together).....	6.90
No. 15A—Set of coils for 110 V. A.C. generator (self excited).....	\$5.95

Coils No. 4A used with armature No. 014 make a 6 volt slow speed generator like our model No. 414.

Coils No. 5A used with original Dodge armature make a 6 volt slow speed cut-in 350-450 r.p.m. 35 ampere maximum.

Coils No. 14A used with armature No. 014B make a slow speed generator like our model No. 1414.

Coils No. 1A used with armature No. 012 make a 12 volt slow speed generator like our Model No. 1212.

Coils No. 3A used with original Dodge armature make a 6 volt high speed generator like our model No. 2116.

Coils No. 2A used with armature No. 012B make a slow speed generator like our model No. 0202.

Coils No. 7A used with armature No. 003 make a 32 volt slow speed generator like our model No. 403A.

Coils No. 8A used with armature No. 002 make a 32 volt high speed generator like our model No. 402.

Coils No. 11A used with original Dodge armature make a 32 volt motor like our model No. 832.

Coils No. 9A used with armature No. 051 make a 110 volt A.C. constant speed generator like our model No. 551.

Coils No. 10A used with armature No. 052 make a 110 volt D.C. generator like our model No. 410.

Coils No. 12A used with armature No. 010 make a 110 volt D.C. motor like our model No. 810.

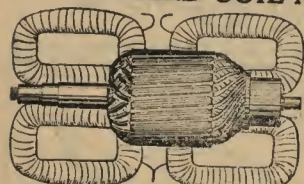
Coils No. 13A used with original Dodge armature make an Arc Welder like our model No. 103.

Coils No. 15A used with armature No. 015 make a 110 volt A.C. self-excited generator like our model No. 155.

## FIELD COIL AND ARMATURE

### COMBINATIONS

Special price reductions are offered on Field Coils and Armatures purchased together. Often nothing else is needed to complete your generator or motor after these coils and armatures are installed. These savings are worth your attention.



#### Dodge Combinations

	Regular Price	You Save	Combination Price
Coils 4A and Armature 014 .....	\$11.70	\$0.60	\$11.10
Coils 14A and Armature 014B .....	12.80	.65	12.25
Coils 1A and Armature 012 .....	12.10	.60	11.50
Coils 2A and Armature 012B .....	12.80	.65	12.25
Coils 7A and Armature 003 .....	16.65	.75	15.90
Coils 8A and Armature 002 .....	16.65	.75	15.90
Coils 9A and Armature 051 .....	12.05	.60	11.45
Coils 10A and Armature 052 .....	15.70	.80	14.90
Coils 12A and Armature 010 .....	15.70	.80	14.90
Coils 15A and Armature 015 .....	18.85	1.00	17.85

Be sure to send old armature for exchange when ordering above kits. Ship. wts.: Dodge Combinations 24 lbs. You pay postage.

No. 30—Armature for No. 300 Delco-Remy 6 Volt Slow Speed Generator. This generator used on several model Winchargers, Parris Dunn plants, LeJay Plants, Zenith Chargers and other popular makes. Ship. wt. 8 lbs. Exchange price. F.O.B. .... \$3.45



## DODGE ARMATURES

These LeJay Factory Rewound Armatures are backed by our many years of experience in the building of fine generators. Each armature is varnished and baked twice, and must pass five tests.

Ship. Wt.  
16 lbs.

For "G" or "GA"  
Dodge  
Generators



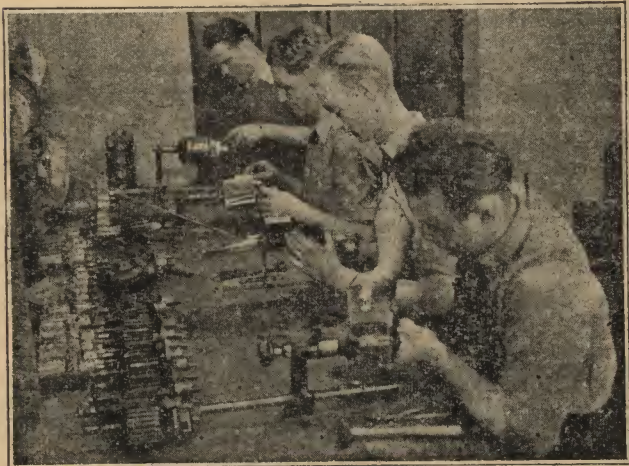
You pay  
postage.

Exchange Only  
No Outright Sales

Do not send in an old banded "G" armature for exchange. Also please state whether the armature is to be used in a "G" or "GA" generator—this information is necessary when filling your order.

No. 014	—Dodge 6V slow speed armature, exchange.....	\$6.85
No. 014B	—Dodge 6V slow speed armature, exchange.....	6.85
No. 012	—Dodge 12V slow speed armature, exchange.....	6.85
No. 012B	—Dodge 12V slow speed armature, exchange.....	6.85
No. 003	—Dodge 32V slow speed armature, exchange.....	9.75
No. 002	—Dodge 32V constant speed armature, exchange.....	9.75
No. 051	—Dodge 110V A.C. generator armature, exchange....	6.85
No. 052	—Dodge 110V D.C. generator armature, exchange....	9.75
No. 010	—Dodge 110V D.C. motor armature, exchange.....	9.75
No. 015	—Dodge 110V A.C. generator armature, includes col- lector ring and collector ring assembly.....	12.90

Nos. 003, 002, 052 and 010 are equipped with 49 bar commutator.  
The correct brushes for your generator are listed on page 38.



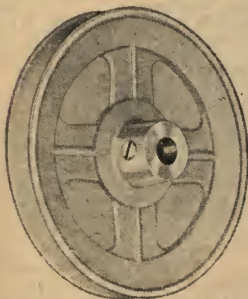
A division of our winding department showing skilled winders at work on armatures sent in by our customers.

### "V" Type Pulleys

These single groove "V" pulleys are perfectly balanced and true running. Take  $\frac{5}{8}$ " belts. Pulleys 4" diameter and larger are special made for the Dodge shaft ( $\frac{7}{8}$ " bore,  $\frac{1}{4}$ " key) and following sizes carried in stock.

You pay postage.

7G19	—Ford, "T" 3 1/2" dia. 1 lb....	\$0.3
7G20	—Ford, "PH" 3 1/2" dia. 1 lb....	.3
7G21	—Ford "A" 3 1/2" dia. 1 lb....	.3
7G22	—Delco, 3 1/2" dia. 1 lb....	.3
7G23	—Chevrolet 3 1/2" dia. 1 lb....	.3
7G24	—Dodge, 4" dia. 1 1/2 lbs.....	.9
7G25	—Dodge, 5" dia. 1 3/4 lbs.....	1.1
7G26	—Dodge, 6" dia. 2 1/2 lbs.....	1.5
7G27	—Dodge, 7" dia. 2 1/2 lbs.....	1.9
7G29	—Dodge, 9" dia. 3 lbs.....	2.8
7G12	—Dodge, 12" diam. 5 lbs.....	3.9



"A" BELTS USED UP TO 3/4 H.P.				"B" BELTS USED UP TO 4 H.P.			
PART NO.	OUTSIDE CIRCUM.	WT. OZ.	PRICE	PART NO.	OUTSIDE CIRCUM.	WT. OZ.	PRICE
2230	23-IN.	4	45c	3250	25-IN.	4	\$0.82
2240	24 "	4	45c	3260	26 "	4	.096
2260	26 "	4	46c	3280	28 "	4	.099
2300	30 "	5	51c	3300	30 "	4	1.09
2320	32 "	5	54c	3320	32 "	5	1.14
2360	36 "	5	59c	3340	34 "	5	1.19
2400	40 "	6	65c	3360	36 "	6	1.25
2440	44 "	6	72c	3400	40 "	6	1.35
2530	53 "	7	83c	3450	45 "	6	1.45
2620	62 "	8	95c	3540	54 "	7	1.48

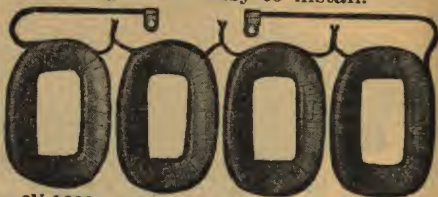
WE STOCK ALL LENGTHS UP TO 99' AT COMPARABLE PRICES



## Ford "T" Field Coils

A set of 4 new factory made field coils for the Ford "T" changes, ready to install in your frame. Each set polarized and connected together. Easy to install.

### FORD FIELD COILS



No. 2P—Set of coils for 6V 1800 r.p.m. motor.....	\$2.15
No. O-18—Set of coils for 6V outboard motor.....	2.15
No. 1P—Special DeLux coils for 6V slow speed generator as used in our generator No. 1405.....	1.85
No. 4P—Set coils for 12V 1800 r.p.m. motor (standard "T" coils).....	1.98
No. 5P—Set of coils for 32V 1800 r.p.m. motor.....	2.15
No. 6P—Set of coils for 32V generator.....	2.15
No. 7P—Set of coils for 6V constant speed generator.....	1.98
No. ER18—Set of coils for Scooter or Go-Bike motor.....	2.15
No. 3PD—Set of coils for 6, 12 or 32 volt drill motor as described in Plan 25, LeJay Manual. (Specify voltage wanted when ordering).....	2.00
Shipping weight 3 lbs. per set. You pay postage.	

Coils No. 1P used with armature No. 94 make a 6 volt slow speed generator like our No. 1405.

Coils No. 2P used with armature No. 006 make a 6 volt motor like our No. 706.

Coils No. O-18 used with armature No. O-16 make a 6 volt outboard motor like our model No. O-48.

Coils No. ER18 used with armature No. ER16 make a combination 6 and 12 volt motor for Scooter and Go-Bike like our No. ER48.

Coils No. 4P used with armature No. 021 make a 12 volt motor like our model No. 712.

Coils No. 5P used with original "T" armature make a 32 volt motor like our model No. 782.

Coils No. 6P used with armature No. 032 make a 32 volt generator like our model No. 332.

Coils No. 7P used with armature No. 07 make a 6 volt constant speed generator like our No. 2405.

Coils No. 3PD used with armature No. 06D make a drill motor as described in plan 25, LeJay Manual.

## Ford Armatures

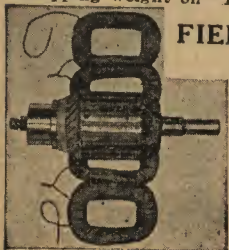
Only the finest of materials are used in LeJay's rewound armatures. Each armature is varnished and baked two times, and must pass five inspection tests. Easy to install. No outright sales. Sold Exchange Only.



No. 006—Ford "T" 6V motor armature, exchange.....	\$2.70
No. O-16—Ford "T" 6V outboard motor armature, exch.....	2.70
No. 021—Ford "T" 12V motor armature, exchange.....	2.70
No. 032—Ford "T" 32V generator armature, exchange.....	2.70
No. 07—Ford "T" 6V constant speed generator armature, exch.....	2.70
Shipping weight on "T" armatures is 7 pounds. You pay postage.	

## FIELD COIL AND ARMATURE COMBINATIONS

Special price reductions are offered on Field Coils and Armatures purchased together. Often nothing else is needed to complete your generator or motor after these coils and armatures are installed. These savings are worth your attention.



### Ford "T" Combinations

	Regular Price	You Save	Combination Price
Coils 1P and Armature 94.....	4.55	.15	4.40
Coils 2P and Armature 006.....	4.85	.25	4.60
Coils O-18 and Armature O-16.....	4.85	.25	4.60
Coils ER18 and Armature ER16.....	6.05	.30	5.75
Coils 3PD and Armature 06D.....	5.90	.80	5.60
Coils 4P and Armature 021.....	4.68	.20	4.48
Coils 6P and Armature 032.....	4.85	.25	4.60
Coils 7P and Armature 93.....	4.55	.15	4.40

Be sure to send old armature for exchange when ordering above kits.  
Ship. wts.: Ford Combinations 10 lbs.

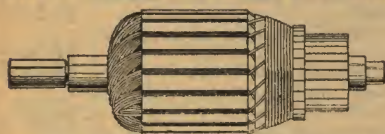


**No. ER16**—Ford "T" factory rewound and reconditioned armature with extended and threaded shaft. Especially made for Scooter or Go-Bike. When used with field coils No. ER16 makes a combination 6 or 12 volt motor like our model ER48. Lock nut included. Exchange price.....\$3.90



**No. 06D**—Like armature ER16 except for 6, 12 or 32 volt drill motor as described in Plan 25, LeJay Manual. Extended and threaded shaft to take drill chuck No. 360 (24 threads to the inch). (Specify voltage wanted when ordering). Exchange price.....\$3.90

**No. 94**—Ford "T" factory rewound and reconditioned 6 volt slow speed armature. When used with original field coils the cut-in speed is 400 r.p.m. with maximum output of 10 amperes, like our Model No. 405. When this armature is used with No. 194 Deluxe field coils the cut-in speed is 290 r.p.m. with maximum output of 15 amperes, like our Model No. 1405. In most cases it is necessary to place a



thin metal shim under each pole piece to get proper cut-in speed. Pole piece shims (set of 4) sell at 09c per set. Exchange price .....\$2.70

**No. 94A**—Ford "T" factory rewound and re-

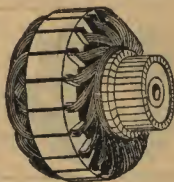
conditioned 6 volt slow speed armature to be used with original field coils. Cut-in speed 325 r.p.m. with maximum output of 10 amperes. When this armature is used with No. 194 Deluxe field coils the cut-in speed is 275 r.p.m., maximum output 12 amperes. It is advisable to use pole piece shims for best results. Exchange price.....\$2.87

**No. 97**—Ford "T" factory rewound and reconditioned 110 volt A.C. armature. To be used with original field coils. Delivers 150-200 watts, 110 volts and 60 cycles 1800 r.p.m., like our Model No. 550. Exchange price .....\$2.85

**No. 95**—Ford "PH" factory rewound and reconditioned 6 volt slow speed armature to be used with original field coils. Cut-in speed 390 r.p.m. Maximum output 10-12 amperes. Exchange price .....\$2.95

**No. 95A**—Ford "PH" factory rewound and reconditioned 6 volt slow speed armature to be used with original field coils. Cut in speed 290-325 r.p.m. Maximum output 8-10 amperes. Exchange price .....\$3.15

**No. 99**—Ford "PH" factory rewound and reconditioned 110 volt A.C. armature. To be used with original field coils. Delivers 200 watts at 110 volts. 60 cycles at 1,200 r.p.m. Exchange price .....\$3.15



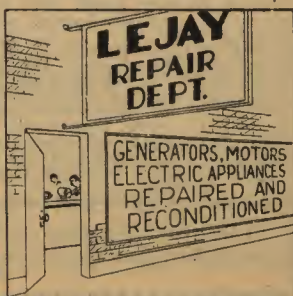
**No. 98**—Ford "A" factory rewound and reconditioned 6 volt slow speed armature. To be used with original field coils. Cut-in speed 420 r.p.m. Maximum output 8 amperes. Exchange price .....\$2.95

The above exchanges mean that if you will send us your old armature together with price quoted we will in turn ship you a factory rewound armature to be inserted in your generator. Positively no armatures will be shipped until we receive your old one for the exchange. Ship. wt. on any above armatures, 7 lbs. F.O.B. Mpls.

## LeJay's Repair Department

is Efficiently Equipped to repair or recondition motors, generators, and other electrical appliances of every size and description. Only the finest material is used, and careful, experienced workmen guarantee your satisfaction.

- It is advisable to write us before sending items for repair.
- All shipments MUST be prepaid, with letter of instructions attached.
- This department handles repairing ONLY. Please do not send motors or generators for changes or conversions.



## NOTICE

No refund can be made where special work is done on odd type generators, or generators and armatures which are not listed in this catalog.

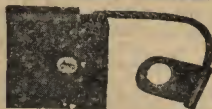
# LEJAY Generator Parts

## SPECIAL SLOW-SPEED CARBON BRUSHES

The average automobile generator brush will not operate satisfactorily in a wind-driven slow-speed generator. LeJay Special Slow-Speed Brushes are made of high quality carbon with just the right mixture of graphite and copper to give perfect performance in your wind plant. These slow-speed brushes will also work exceptionally well in constant speed or high speed generators. We pay postage.

LF2—Ford "T" set of 3 brushes for slow speed generator	\$0.29
O-1620—Ford "T" set of 2 copper carbon for 6 or 12 volt outboard motor	\$0.65
LF3—Ford "T" set of 2 brushes for 6, 12 or 32 volt motor	\$0.19
LR31—Ford "A" or Chevrolet set of 3 for slow speed generator	\$0.29
LF4—Ford P.H. set of 5 for slow speed generator	\$0.41
LF7—Ford P.H. set of 3 for slow speed generator	\$0.32
LN22—Dodge "G" for all slow speed generators using 25 bar commutator; per each brush	\$0.27
JN22—Dodge "G" for all slow speed generators using 49 bar commutator; per each brush	\$0.36
NX22—Dodge "G" for arc welder; per each brush	\$0.27
LN28—Dodge "GA" for all slow speed generators using 25 bar commutator; per each brush	\$0.39
JN28—Dodge "GA" for all slow speed generators using 49 bar commutator; per each brush	\$0.43
JX28—Dodge "GA" for arc welder, per each brush	\$0.39
NX22 also JX28 fit original Dodge holder. For brushes to fit special 4-brush rigging see page 40.	

The Difference Between the Dodge Type "G," and "GA" Brushes.



The Dodge type "GA" brush (shown at left), has a copper pigtail connector, but no mounting holes.

The Dodge type "G" brush, (at right), has two mounting holes, but no pigtail.



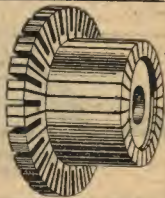
## BRUSH HOLDERS

No. LJ61—Ford "T" brush holder assembly, less brushes. Ship. wt. 1 lb. You pay postage.	\$0.49
No. LJ62—Ford P.H. 3 brush type less brushes. Ship. wt. 1 lb. You pay postage.	.45
No. LJ63—Ford P.H. 5 brush type less brushes. Ship. wt. 1 lb. You pay postage.	.54

## COMMUTATORS

Genuine Toledo Commutators; do not confuse them with cheaper and inferior brands.

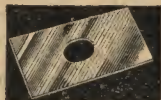
No. 521—Ford model "T"	\$0.89
No. 728—Ford model "A," 28 bars	.89
No. 828—Autolite, 28 bars	.89
No. 928—Delco, 28 bars (Chevrolet)	.89
No. 240—Ford model "A," 40 bars	1.25
No. 322—Dodge models "G" or "GA" 25 bars	2.95
No. 349—Dodge models "G" or "GA" 49 bars	3.25
Ship. wt.: Ford 1 lb., Dodge 2 lbs. You pay postage.	



## FORD "T" POLE SHIMS

It is advisable to place a thin metal shim under each pole piece in Ford "T" generator when changing to slow speed. This brings pole surface in line with armature which helps to lower the cut-in speed.

No. 4PS—Set of 4 pole shims. Postage pd.. \$0.09



## Field Circuit Fuses and Clips

No. 6F—Replacement clip for use in field circuit of LeJay Generators. Postpaid.	\$0.23
No. 5F—Replacement fuses to fit above. Fuses come in 1, 2, 3, 4 or 10 ampere sizes. Specify size when ordering. Each, postpaid	\$0.10

I received my Manual yesterday. It is so much better than I expected I just had to write you about it.

E. F. B.—Montica, Calif.

# LEJAY MANUFACTURING CO.



# LEJAY Generator Parts

## COTTON TAPE



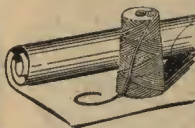
Genuine "Emerald" brand, especially made for tapping field coils.

Width	Length	Price per Roll
$\frac{1}{2}$ "	36 linear yards	\$0.36
$\frac{3}{4}$ "	36 linear yards	.44
1"	36 linear yards	.56

Shipping weight 4 oz. to 36 yards. You pay postage.

## ARMATURE PAPER

High quality insulation paper with standard thickness for all automobile armature work, per square foot ..... 10c  
Add  $1\frac{1}{2}$ c to each sq. ft. for postage.



## ARMATURE TWINE

Best quality— $\frac{1}{4}$  lb. balls, postpaid....\$0.27

## WHITE COTTON SLEEVING

Highest Quality—Lowest Prices—Postpaid

Part No.	For Wire Sizes	Inside Diameter	Price 25-ft. Lengths
A	15-22	$\frac{1}{16}$ "	10c
B	12-14	$\frac{7}{8}$ "	18c
C	7-11	$\frac{5}{8}$ "	35c

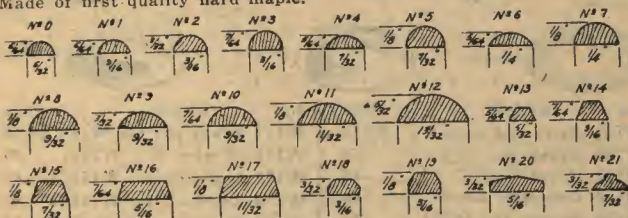


## VARNISHED CLOTH

Special LeJay quality (yellow or black). Approximately 36" wide.  
.005 Standard, per linear yard.....\$0.55  
.007 Standard, per linear yard......58  
.010 Standard, per linear yard......62  
Shipping weight 1 lb. per square yard. You pay postage.

## WEDGES

LeJay wedges are used by armature rewinders all over the world. Made of first-quality hard maple.



Wedges are cut to fit your armature here in our factory. Determine wedge number from above chart then tell us what length wedges should be cut and number of wedges used in your armature.

No. 6W—Set wedges for standard generator, postpaid.....\$0.23  
No. 12W—Set wedges for Dodge generator, postpaid......29

## VARNISH

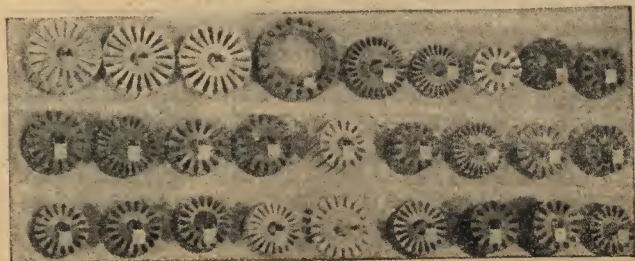
Best Quality Impregnating

	$\frac{1}{2}$ Pt.	1 Pt.	1 Qt.
2-hr. Baking	\$0.26	\$0.45	\$0.75
4-hr. Air Drying	.29	.49	.88

Larger quantities quoted on application. Ship. wt.:  $\frac{1}{2}$  pt., 1 lb.; 1 pt.,  $1\frac{3}{4}$  lbs.; 1 qt., 3  $\frac{1}{8}$  lbs. You pay postage.



## Armature End Laminations

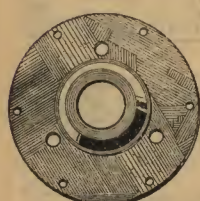


It is important to replace the fibre end laminations when rewinding an armature. We stock a large assortment for immediate shipment. When ordering please give the following information: • 1. Diameter of armature core. • 2. Number of armature slots. • 3. Serial number stamped on core. • 4. Maker's name and model.  
No. LA2—Automotive sizes, per set of two, postpaid..... \$0.14

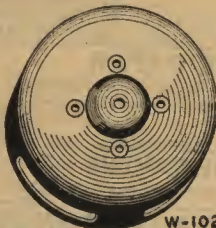
# LEJAY Generator Parts

A generator cannot be expected to give perfect operation if it has worn parts which need replacing. We offer Ford "T" or Dodge 12 volt ("G" & "GA") replacement parts at the following low prices.

## Parts for "T" Generator



W-101



W-102



W-103



W-150



W-151



W-152



W-153



W-154



W-155



W-156



W-168



W-169



W-170



W-171



W-172



W-173



W-166



W-190



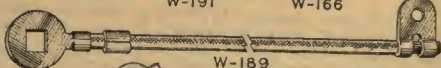
W-191



W-197



W-186



W-189



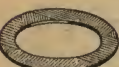
W-209



W-174



W-193



W-185



W-187



W-188

No.	Article	Price
W101	Drive end plate	\$0.35
W102	Brush end bell	.45
W103	Brush holder	.45
W106	Generator shell	.65
W150	Screws for W193	.01
W151	For holding W102	.01
W152	Control br bolt & nut	.05
W153	Holding screw W101	.01
W154	Br. band bolt & nut	.03
W155	Terminal bolt	.03
W156	Pole shoe bolt	.02
W157	Pole shoe	.13
4PS	Pole shoe shims, 4	.09
W166	Terminal insulator	.08
W168	Terminal fibre washer	.01
W169	Terminal brass wash.	.01
W7	Drive end oiler	.09

No.	Article	Price
W171	Brass nut for W155	\$0.03
W170	Washer for W152	.01
W172	Lckwash. for W152, 4	.01
W173	Lckwash. for W150, 4	.01
W174	Brush end bell oiler	.11
W185	Spacing washer	.02
W186	Felt washer	.04
W187	Disc for 203 bearing	.03
W188	Disc for 201 bearing	.03
W189	Brush to term. lead	.12
W190	Propeller hub key	.02
W191	Propeller hub pin	.02
W193	Brush plate holder	.05
W197	Brush cover band	.15
W209	Brush spring	.05
W8	Field leads (2 for)	.06

Be sure to include with your remittance, enough to cover mailing as we do not pay postage on above generator parts.

## Parts for Powerhouse Generator

P2	Brush cover	\$0.18
LJ62	Brush holder (3 brush type)	.45
LJ63	Brush holder (5 brush type)	.54
P3	Brush spring	.05
P4	Generator shell	.65
P5	Pole shoe	.11
P6	Pole shoe bolt	.02
P7	Terminal bolt with insulating washer and nuts	.16
1PH	Propeller hub	.59
P8	Propeller hub bolt	.03



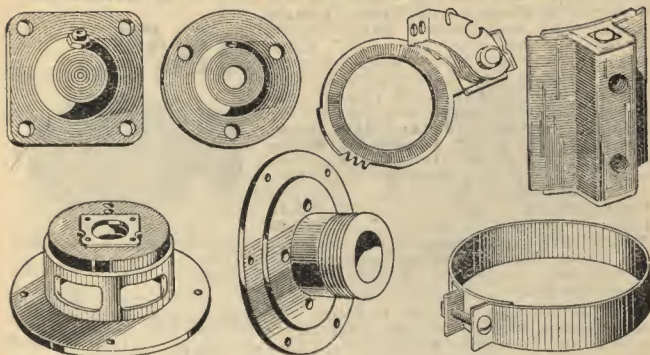
We ordered parts from you and assembled 1102, transformer are welder described in your plan 29. It was a simple thing to build and we are well pleased with the work we are able to do with it.

B. W. M., Ramseur, N. C.



# LEJAY Generator Parts

Parts for Dodge "G" or "GA" Generators



No.	Article	Price	No.	Article	Price
D1	Drive end plate "GA"	\$1.65	D16	Left main brush assy. "G"	.45
D2	Drive end plate "G"	.70	D17	Rt. main brush assy. "G"	.45
D3	Brush end bell "GA"	1.65	D18	Control brush assy. "G"	.45
D4	Brush end bell "G"	.70	D19	Terminal bolt "GA"	.22
D5	Generator shell "GA"	1.90	D20	Aluminum casting for 205 bearing holder "GA"	.60
D6	Generator shell "G"	1.90	D21	Same as D20 but for "G"	.60
D7	Pole shoe "GA"	.55	D22	Brush cover band "GA"	.35
D8	Pole shoe "G"	.55	D23	Brush cover band "G"	.19
D9	Pole shoe screw "G&GA"	.03	D26	Brush end oiler	.09
D10	Small bearing plate "GA"	.27	D27	Brush end grease cup	.12
D11	Small bearing plate "G"	.19	D28	Drive end grease cup	.09
D12	Generator assembly bolts for "G" 7 inches long	.04	D29	Shaft hub key	.10
D13	Bolts for D1 and D3	.01	D30	Shaft hub nut	.10
D14	Main brush assy. including two holders "GA"	.95			
D15	Control brush assy. one brush holder "GA"	\$0.65			

Be sure to include with your remittance, enough to cover mailing as we do not pay postage on above generator parts.

See other pages for brushes, bearings and commutators to fit.

An easy way to tell the difference between type "GA" and type "G" generator is to examine the brushes. "G" brushes have two little holes through top for mounting screws. "GA" brushes have no holes but have a copper pig-tail fastened to brush for connecting.

We do not stock parts for generators other than listed in this catalog.

## BEARINGS

A real quality bearing and at a real price. Thousands sold to satisfied customers.

No. 201—Ball bearing. Fits commutator end of Ford "T", Chevy, Autolite, Delco-Remy and many others.....\$0.55

No. 203—Ball bearing. Fits drive end of Ford "T", Chevy, Autolite, Delco-Remy and many others.... .57

No. LJY—Ford "T" end thrust bearing..... 1.29

No. LJ606—Dodge com. end bearing 1.59

No. 605—Dodge drive end bearing.. 1.69

No. 3168—Dodge Com. end shielded on one side.....\$2.10

No. 77205—Dodge drive end grease sealed..... 2.5t

No. 77201—Ford "T" Com. end grease sealed..... 1.7t

No. 77203—Ford "T" drive end grease sealed..... 2.10

(Shipping weight 7 oz. You pay postage.)



## Pullout Cables

$\frac{1}{8}$ " copper twist pullout cable for 6 volt and other small wind plants 8 ft. You pay postage.....\$0.20

$\frac{1}{4}$ " copper twist pullout cable for 32 volt and other larger wind plants. 10 ft. You pay postage.....\$0.53

The above cables are same as those described in plans 3, 10 and 31 of the LeJay Manual.

## COLLECTOR RING

These parts are for use when building your own wind plant as described in Plan 8 or Plan 10, LeJay Manual.

No. J—Machined brass collector ring complete with insulation material.....\$0.25

No. K—Spring brass collector ring wiper..... .15

No. M—Coil spring for governing tension..... .15

1" Pulleys, 2 for..... .22

Add 4c to each item for postage.

# LEJAY Welding Supplies

## ARC WELDER FROM DODGE GENERATOR

A 75-125 Ampere Arc Welder Factory rebuilt from Dodge frame. Easily capable of welding materials up to  $\frac{1}{8}$ " thick. Heavier materials can be welded if more time is taken and weld gradually built up. Equipped with 4 brush rigging. Requires 3 H.P. to operate and best results obtained between 1800 and 2200 r.p.m. No. 103W—75 to 125 Ampere Arc Welder as described above. Includes 2 grease cups (one for each bearing), less base and pulley. Ship. wt. 54 lbs. You pay transportation ..... \$22.75  
Exchange price ..... \$18.50

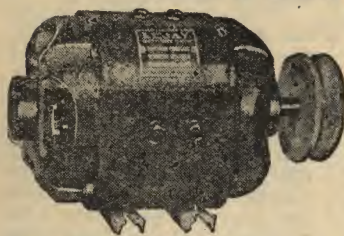
**\$18.50** EXCHANGE



No. 103—75 to 125 Ampere Arc Welder as described above. Includes two grease cups, mounting base and 5" "V" pulley as illustrated. Ship. wt. 56 lbs. You pay transportation..... \$24.50  
Exchange price..... \$20.25

No. 103DU—Two No. 103 Welders. For making a Dual Welder as described in Plan 8 of the LeJay Manual. Complete with pulleys and feet. Ship. wt. 112 lbs. (You save \$2.45.) F.O.B. \$46.55  
If you send 2 Dodge generators for exchange, the price is... \$38.55

## A NEW LEJAY WELDER



An 85-150 Ampere Arc Welder built around the "Dynawind X" Series frame and especially engineered for welding materials up to  $\frac{1}{4}$ " thick. Heavier materials may be welded if weld is built up. • This machine is built to stand up. • Heavy cast iron square case. • Massive ventilated end caps support the jumbo oversize bearings. • Bearings grease-sealed at factory. NO OILING! • Ventilating fan forces a continuous stream of air through engine

tire machine to help keep it cool. • Ample shaft projection to take either "V" or flat pulley,  $\frac{1}{2}$ " diameter. • Armature is lap wound working in conjunction with compound wound field coils makes this an extremely smooth working machine that is essential for a good welding job. • Dimensions:  $7\frac{1}{4}$ " square, overall length  $12\frac{1}{2}$ ". • Finished in black crackle lacquer. Requires 4 H.P. to operate. Run between 1800 and 2200 r.p.m.

No. 304W—LeJay 85-150 ampere welder as above described. Includes 5" pulley "V" type and mounting feet as illustrated. Shipping weight 63 lbs. F.O.B. .... \$36.50

Recommendations: Use LeJay Reactor No. A10 for single welder or No. A11 for dual welders. No. 9 Helmet. No. 2EH Holder.

## Complete Welding Outfit—For Heavy Duty Use

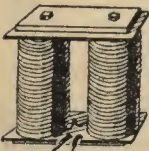
There is nothing else to buy for this welding outfit. It is complete in every respect. As soon as it is belted to your engine and connected to the reactor it is ready to go to work for you. Why not earn money welding for others?

No. C04W—This complete outfit consists of one No. 304W LeJay Welder with pulley and mounting feet, One No. A10 LeJay Reactor, One No. 9 Hood, a \$5.00 assortment of welding and brazing rods, 10 different sizes, One No. 2EH Electrode Holder, and 14 feet of welding cable. Shipping weight 110 lbs. F.O.B.... \$56.40

No. 4W—A Heavy Cast Iron Base for mounting above welder and reactor. Measures: 2" deep, 19" wide, 22" long with mounting feet on each corner. Shipping weight 45 lbs. F.O.B..... \$5.45

No. C4WB—Includes Complete Welding Outfit C04W and base 4W with welding generator and reactor bolted to base. Ready to belt to engine. Shipping weight 160 lbs. F.O.B..... \$64.40

## LEJAY'S REACTORS



A Reactor is necessary when using a generator welder such as our No. 304W or No. 103, or similar types of machines. Its function in the circuit is to level the voltage between time arc is first struck and actual welding operation. Acts as a cushion to prevent any harm to welding generator.

No. A10—Reactor as above described and pictured. Made with No. 8 D.C.C. and to be used with single or any other welding generator of equal capacities. Ship. wt. 35 lbs. F.O.B. .... \$14.10

No. A11—Reactor like above except made with No. 6 D.C.C. and for use with dual welders. Ship. wt. 40 lbs. F.O.B..... \$15.10

Reactor No. A11 may be used with the single welder, then if you add a second welder to your outfit at a later date you can easily do so without buying a larger reactor.

welders 304W, 103 Welder cannot be successfully used without reactor.

No. A11—Reactor like above except made with No. 6 D.C.C. and for use with dual welders. Ship. wt. 40 lbs. F.O.B..... \$15.10

Reactor No. A11 may be used with the single welder, then if you add a second welder to your outfit at a later date you can easily do so without buying a larger reactor.

The field coils I got of you a short time ago are just the real thing as my welder sure works fine. I have had several opportunities to sell my welder. Sure am glad I got LeJay Coils.

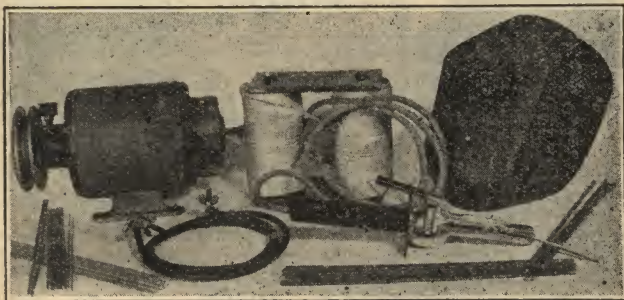
Carl A. Clover, Jr., Randall, Wis.



# LEJAY Welding Supplies

## A Complete Outfit — For General Repairing

This outfit is complete in every detail, nothing else to buy. As soon as you connect and belt to your engine it is ready for use. Earn extra cash. Weld for your neighbors at a profit.



**No. 104—Arc Welding Outfit as shown in above picture. Includes one Welder No. 103 with 5" pulley "V" type and mounting feet, one Reactor No. A10, one Hood No. 9, one Electrode Holder No. 2EH, a \$5.00 assortment of six different sizes of welding and brazing rods, two sizes aluminum welding rods, two welding cable leads, and one connecting cable for connecting welder to reactor.**

**\$45.00**

Ship. wt. 104 lbs. F.O.B.....

You save \$6.00 when buying this complete outfit. Because this combination is priced so low we can only allow a discount of \$2.00 if you send in an old Dodge generator for exchange.

**No. 4W—Cast Iron Base for mounting above welding outfit. See previous page for description and price.**

**No. 144W—Includes Complete Welding Outfit 104 and Base 4W with welding generator and reactor bolted to base. Ready to belt to engine. Shipping weight 154 lbs. F.O.B.....**

**\$53.00**

Exchange price, F.O.B.....

**\$50.50**

## A Dual Outfit — For Extra Heavy Work

**No. 104DU—This Dual Welding Outfit is capable of producing over 200 amperes for extra heavy work. Includes two welders No. 103 with 5" pulleys and mounting feet, one Reactor No. A11, one Hood No. 9, one Electrode Holder No. 2EH, an assortment of six different sizes of welding and brazing rods, two sizes aluminum welding rods, two welding cable leads, connecting cables and wires for connecting welders together and to reactor, two double pole double throw switches, one single pull, single throw switch. Requires 6 H.P. to operate. Shipping weight 175 lbs. F.O.B.....**

**\$70.80**

You save \$8.20 when buying this Dual Welder Outfit. Because this combination is priced so low we can only allow a discount of \$5.00 if you send in two old Dodge generators for exchange.

**No. 4W—Cast Iron Base for mounting above dual welding outfit. See previous page for description and price.**

**No. W14DU—Includes Complete Dual Welding Outfit 104DU and Base 4W with welding generators and reactor mounted to base. Ready to belt to engine. Shipping wt. 220 lbs. F.O.B..**

**\$79.80**

If you send 2 Dodge generators for exchange, the price is..

**\$74.80**

## Other Worthwhile Combinations

**No. 10A1—This Combination includes Welder No. 103 and Reactor No. A10. Shipping weight 94 lbs. F.O.B.....**

**\$35.50**

Exchange price, F.O.B.....

**\$31.25**

You save \$3.10 when purchasing these two items at one time.

**No. 20A2—This Combination includes Two Welders No. 103 and Reactor No. A11. Shipping weight 156 lbs. F.O.B.....**

**\$59.00**

Exchange price, F.O.B. (Two Dodge generators sent in)...

**\$54.00**

You save \$5.10 when buying these three items at one time.

**No. 4WA1—This Combination includes Welder No. 304W and Reactor No. A10. Shipping weight 101 lbs. F.O.B.....**

**\$45.00**

You save \$5.60 when buying these two items at one time.

It is best to use two belts when operating Dual Welders.

Welding Generators are not sold knocked down.

Welding Generators are guaranteed the same as Wind Plant Generators as described under "Guarantee" page 2.

## Welder Control RHEOSTATS



W15 listed on page 46 makes a good rheostat for controlling output of single Dodge welder. Insert in series with shunt field. Dual Dodge welders requires 2 such rheostats.

See Special priced General Electric Welder page 45

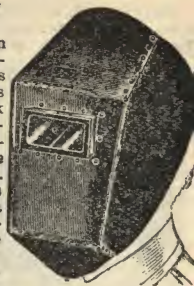
An Engine Governor especially suited for arc welding is described on page 45.

# LEJAY Welding Supplies

## WELDING HELMET



This helmet has an adjustable band for fastening on head. Allows you to use both hands on work — tilts back when you are not welding, very handy. Genuine Essentialite Glare Proof Welding Glass. This special glass filters the glare producing a softer and more comfortable vision. Essentialite lenses are scientifically correct, for electric welding there are none better—



they positively aid in conserving the eyesight of those who are subjected to welding glare.

No. 9 Helmet, Ship. wt. 8 lbs. F.O.B. Mpls. .... \$3.45



## METERS for Welding Equipment

These meters are built for dependability, are of fixed coil or moving vane type with a "dead beat" movement. Housed in a projecting case are ideally suited for welding apparatus.

No. 5LV—Voltmeter 0-50 volts D.C. for use with single or dual Dodge welders or any other welder rated at 50 volts or less. Ship. wt. 2 lbs. F.O.B. Minneapolis ..... \$3.55

No. 5LA—Ammeter 0-150 amperes D.C. for use with single Dodge welder or any other welder rated at 150 amperes or less. Ship. wt. 2 lbs. F.O.B. Minneapolis ..... \$4.95

No. 50LA—Ammeter 0-300 amperes D.C. for use with dual Dodge welders or any welder rated at 300 amperes or less. Ship. wt. 2 lbs. F.O.B. Minneapolis ..... \$5.19

## PANELS

No. W505—Instrument Panel with 5LA Ammeter and 5LV Voltmeter completely mounted. Ship. wt. 5 lbs. F.O.B. .... \$8.95

No. W5LO—Instrument Panel with 50LA Ammeter and 5LV Voltmeter completely mounted. Shipping weight 5 lbs. F.O.B. .... \$9.19

No. W505R—Same Panel as W505 except equipped with W15 Welding Control Rheostat. Shipping weight 6 lbs. F.O.B. .... \$10.50

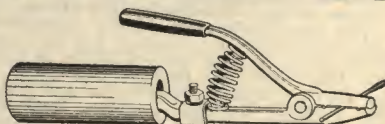
No. W5LOR—Same Panel as W5LO except equipped with two W15 Welding Control Rheostats. Ship. wt. 6 1/2 lbs. F.O.B. .... \$12.29



## ELECTRODE HOLDER

This is a large doubly durable holder made of solid bronze and especially designed for light production work. Well balanced.

No. 2EH—Holder as pictured. Ship. wt. 3 lbs. .... \$1.95



### DeLuxe Holder

This holder is much heavier constructed and made for heavy duty and factory production work. There is a thick square fibre guard on handle to prevent holder or electrode from grounding when placed on work—also protects hands from sparks. Large cam action trigger. Positive grip. An exceptional value.

No. 3EH—DeLuxe holder. Ship. wt. 3 1/2 lbs. You pay postage. . \$2.95



## WELDING CABLE

A tough rubber jacketed cable for electric welding. Flexible and durable for long wear. Offered by LeJay at following low prices.

You Pay Transportation on Cable

Gauge	Current Capacity	Ship. Wt. per 100 ft.	Price Per Foot
6	80 amperes	13 pounds	9 1/2c
4	125 amperes	21 pounds	12c
2	200 amperes	29 pounds	14c
0	295 amperes	43 pounds	19c

### Super-Flexible WELDING CABLE

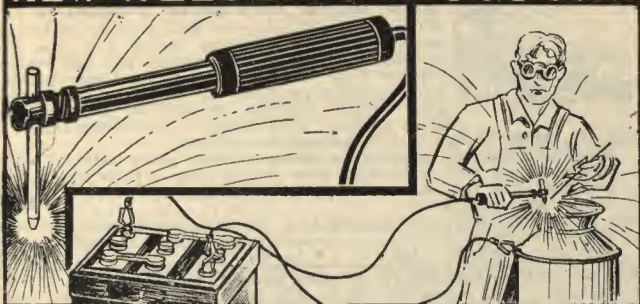
This welding cable consists of fine copper wires, properly stranded to give extreme flexibility. The rubber jacket has a very high tensile strength, maximum abrasion resistance, water-proof, durable and very tough. The finest welding cable LeJay can offer. Low prices.

6	80 amperes	14 pounds	15c
4	125 amperes	22 pounds	22c
2	200 amperes	33 pounds	28c
0	295 amperes	45 pounds	42c



# LEJAY Welding Supplies

## NEW WELDER with 1000 USES



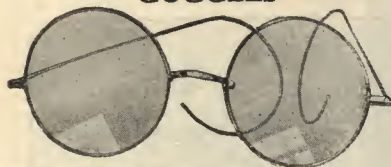
This LeJay Electric Welder is made to operate from any 6 volt car battery. May pay for itself many times in savings on repair bills. You'll be amazed to see how easy it repairs broken fenders, sheet metal, radiators and other metal objects in your shop or about your farm. Avoid expensive trips to the repair shop. Try this welder, it may be the handiest tool you ever owned. Also works on 110 A.C. with aid of converter. Assortment of rods and tips with each LeJay Welder.

No. 35TR—LeJay Welder with brazing rods, welding rods, solder rods and carbon tips. Ship. wt. 2 lbs. F.O.B. .... **\$2.50**

No. 35WK—Same as No. 35TR but in kit form. (Assemble your own, save \$1.00.) Ship. wt. 2 lbs. F.O.B. .... **1.50**

**EXTRA PARTS:** Ground cable (6 feet long), prepaid .... **\$0.49**  
 Carbon Tips, prepaid, each ..... **.06**  
 Flux coated welding rods, per dozen, prepaid ..... **.16**  
 Bronze brazing rods, per dozen, prepaid ..... **.42**  
 Aluminum welding rods, (minimum order 3 rods) each rod .... **.16**  
 Solder (acid core), per spool, prepaid ..... **.10**  
 Solder (resin core), per spool, prepaid ..... **.10**  
 110 Volt Converter, ship. wt. 14 lbs. F.O.B. .... **9.75**

### GOGGLES



Welding goggles are a necessity—never do welding without them. These economical goggles are made especially for light work such as produced with the 35TR welder. For heavier welding use Welder's Helmet. (See page 45.)

**\$0.92**

No. 3W—Welding Goggles. Postpaid .....

### HOLLUP WELDING RODS

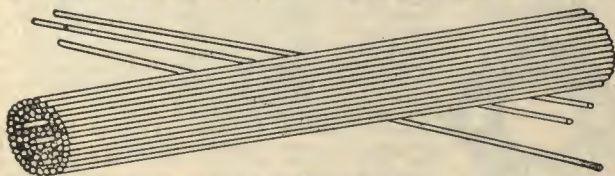
Minimum Rod Order \$1.00

Hollup Sureweld N (Tancoated) for welding steel, structural iron and machine frames. Characterized by its ease of operation, low spatter loss, smoothness of bead, general economy. Passes Class 1 standards, tensile strength of 75,000 lbs. per sq. in. Elongation 25% in 2 inches. Standard polarity, electrode negative. D.C. or A.C. Available in following sizes:

No. HN— $\frac{1}{8}$ "	per lb. FOB. .22
No. HN— $\frac{3}{32}$ "	per lb. FOB. <b>\$0.33</b>
No. HN— $\frac{1}{4}$ "	per lb. FOB. <b>\$0.21</b>

Hollup Grade C.I.8 for electric welding cast iron, cylinder blocks, heads, manifolds, castings, etc. Designed so weld has a strength higher than the casting with a much greater ductility. Can be used at low heat and still get proper fusion, thus reducing hardness at the fusion line. Reversed polarity, electrode positive. D.C. or A.C. Available in the following sizes:

No. CI8— $\frac{1}{8}$ "	per lb. FOB. .34
No. CI8— $\frac{3}{32}$ "	per lb. FOB. <b>\$0.49</b>
No. CI8— $\frac{1}{4}$ "	per lb. FOB. <b>\$0.31</b>



Hollup C-G Electric Bronze Arc Rods. A flux coated alloy electrode composed of silicon, copper and manganese. For welding copper, bronze and brass castings, malleable iron, galvanized iron pipe or steel where warpage must be held to a minimum. Tensile strength and elastic limit equal to mild steel. Standard polarity, electrode negative. For D.C. only. Following sizes:

No. CG— $\frac{3}{32}$ "	per lb. FOB. <b>\$3.35</b>	No. CG— $\frac{5}{32}$ "	per lb. FOB. <b>\$1.67</b>
No. CG— $\frac{1}{8}$ "	per lb. FOB. 1.78	No. CG— $\frac{3}{16}$ "	per lb. FOB. 1.56

Hollup C-G 5% Silicon Aluminum (Coated) for D.C. arc welding only. A special grade of aluminum rod in 14 inch lengths with flux coating for metallic arc welding of cast and sheet aluminum. Reversed polarity, electrode positive. Available in following sizes only.

CG5— $\frac{5}{32}$ "	per $\frac{1}{2}$ doz. F.O.B. <b>\$0.60</b>	CG5— $\frac{3}{32}$ "	per $\frac{1}{2}$ doz. F.O.B. <b>\$0.30</b>
CG5— $\frac{1}{8}$ "	per $\frac{1}{2}$ doz. F.O.B. .45	CG5— $\frac{3}{16}$ "	per $\frac{1}{2}$ doz. F.O.B. .72

# LEJAY Welding Supplies



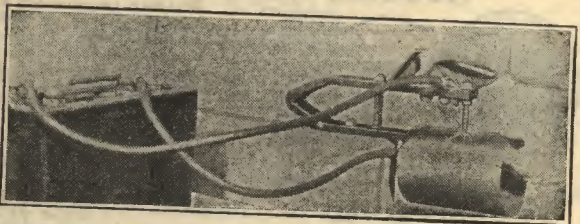
## YOU SAVE SEVERAL DOLLARS!!

When you build your own welder from old Dodge generator. The following listed kits are assembled for your benefit, giving you the proper "Build Your Own" materials at lower prices. Single welder produces up to 125 amperes and dual welders produce up to 200 amperes for short periods. (See Plan 8, LeJay Manual.)

- Kit No. 8206—Dodge to 125 Ampere Arc Welder**  
Armature does not need to be rewound when using this kit. Kit includes field coil materials, fibre brush ring cut to fit, No. 6 welding cable for leads. Complete kit. Ship. wt. 12 lbs. F.O.B. Minneapolis ..... **\$6.45**
- Kit No. 820W—This is kit 8206 less the fibre brush ring and less the No. 6 cable. Includes all materials for making the field coils. Complete kit. Ship. wt. 10 lbs. F.O.B. .... \$5.45**
- Kit No. 8236—Materials for winding Reactor (Dual welders).**  
Includes wire, insulation paper, fibre pieces for end laminations, battery clip and No. 6 welding cable for leads. Does not include reactor steel. This reactor kit includes No. 6 wire which makes the reactor heavy enough to handle dual welders. Ship. wt. 26 lbs. F.O.B. Minneapolis ..... **\$9.95**
- Kit No. 1823—Materials for winding Reactor. (Single welder.)**  
Includes wire, insulation paper, fibre pieces for end laminations, battery clip and No. 8 welding cable for leads. Does not include reactor steel. This reactor kit includes No. 8 wire which makes the reactor heavy enough to handle only one welder. Ship. wt. 20 lbs. F.O.B. Minneapolis ..... **\$9.25**
- Kit No. 824—Steel for Reactor—fits kits 8236 and 1823.**  
Includes all steel, cut and machined to size, drilled and tapped. Complete with bolts. Ship. wt. 21 lbs. .... **\$3.80**
- No. 824A—Fibre end pieces for reactor, cut and drilled according to plan 8. Also fits kit No. 824. Postpaid (2 for) ..... \$0.35**

See Page 28 for Factory Made Dodge Arc Welder  
Field Coils

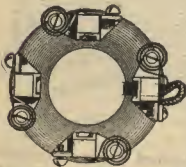
## BATTERY SPOT WELDER ! ! !



Light, compact, just connect to any 6 volt car battery and you're ready to go! Complete in itself—no flux or acid needed, no experience necessary. The LeJay Electric Spot Welder is ideally efficient for ordinary general use, easily welds two pieces iron 22 gauge or lighter, and under proper conditions much thicker pieces can be welded. Does the work quickly and economically. A good battery makes over 1,500 welds. Guarantee: 10 days' free trial.

- No. 2S7—LeJay Spot Welder for 6 volt battery, less leads. Shipping weight 4 lbs. F.O.B. Minneapolis ..... \$3.95**
- No. 2S6—LeJay Spot Welder for 6 volt battery complete with two 3 foot leads and battery terminals as shown above. Shipping weight 6 lbs. F.O.B. Minneapolis ..... \$4.90**

## BRUSH HOLDERS



- No. L4G—Dodge 4 brush holder assembly complete with 4 Standard welding brushes. Fits Model "G" Dodge Arc Welder. Shipping weight 14 ounces. You pay postage ..... \$1.97**
- No. L4GA—Dodge 4 brush holder assembly complete with 4 Standard welding brushes. Fits Model "GA" Dodge Arc Welder. Shipping weight 14 ounces. You pay postage ..... \$1.97**
- No. 4G—Same as L4G except equipped with 4 DeLuxe welding brushes. Shipping weight 14 ounces. You pay postage ..... \$4.15**
- No. 4GA—Same as L4GA except equipped with 4 DeLuxe welding brushes. Ship. wt. 14 ounces. You pay postage ..... \$4.15**
- No. L4B—Set of 4 Standard replacement brushes as used in holder L4G and L4GA. Per set of 4, postpaid. .... \$0.87**
- No. 4WB—Set of 4 DeLuxe replacement brushes as used in holder 4G and 4GA. Per set of 4, postpaid. .... \$2.72**
- No. L2G—Dodge 4 brush holder without brushes. Fits Model "G" Dodge Arc Welder. Ship. wt. 11 ounces. You pay postage. .... \$1.45**
- No. L2GA—Dodge 4 brush holder without brushes. Fits Model "GA" Dodge Arc Welder. Ship. wt. 11 ounces. You pay postage. .... \$1.45**
- Brushes L2G and L2GA fit holders listed here only. They do not fit the regular Dodge brush holder. For brushes to fit the regular Dodge holders see page 32, part No. NX22 and JX28.
- No. LO4—Fibre arc welder brush ring as described in Plan 8, LeJay Manual. Postpaid ..... \$0.19**



# LEJAY Welding Supplies

## 110 Volt A.C. Transformer Arc Welder Kit for Only \$16.75

Capable of welding heavy work. Not sold completely assembled. Sold in kit form only. Build your own and save.

### Kit No.—12 Portable Arc Welder Transformer for 110 A. C. (See Plan No. 29)

Includes transformer materials only.  
6½ lbs. primary wire as specified in plan 29  
15½ lbs. of secondary wire as in plan 29  
2 pieces fiber 5"x5"x½"  
1 roll cotton tape  
Sufficient armature paper .010 for insulation over core and between layers  
1 piece varnish cloth .010  
1 large can impregnating varnish (air drying)  
19½ lbs. 26 ga. silicon steel, cut to size. This is a special coated steel for LeJay Transformers.  
Complete above kit. Ship. wt. 49 lbs. F.O.B.....\$16.75



### Kit No.—10 Spot Welder for 110 A.C.—1-KW Input. (See Plan No. 30)

Includes transformer and copper materials only.  
27 lbs. primary wire as specified in plan 30  
25 lbs. copper band for secondary as in plan 30  
3 lbs. 20 ga. copper for connectors  
¼ lbs. bare wire for joints  
2 copper conductor bars for electrodes  
1 copper bar for splicing  
2 copper electrodes machined to fit  
Sufficient cotton tape for binding secondary  
Armature paper .010 thickness  
Varnish cloth .007 thickness  
1 large can impregnating varnish (air drying)  
50 lbs. 26 ga. silicon steel, cut to size. This is a special coated steel for LeJay Transformers.  
Complete above kit. Ship. wt. 140 lbs. F.O.B.....\$56.25

## Transformer Lamination Steel

This Allegheny Electric Sheet Steel is made for LeJay in 26 gauge only. Is coated on both sides with a special black insulation varnish making it ideal for transformer use and also to meet LeJay's standards of quality. Comes in sheets 6" wide and any length up to 6 feet. A linear foot 6" wide weighs 5½ ounces. 51 pieces compressed makes a stack 1" thick. This material is sold in random lengths 6" wide, or cut to your particular size.

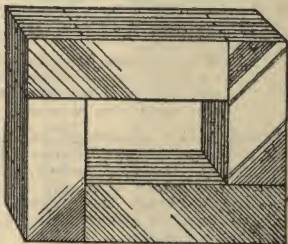
No. RL—Random lengths 6" wide, per pound. F.O.B.....\$0.15

No. CUL—Cut to your specifications, per pound. F.O.B.....\$0.19

When figuring ship. wt. add 2 ounces for each pound of steel.

No. P29—17 pounds of steel cut to size for Plan 29. Ship. wt. 20 lbs. F.O.B.....\$2.95

A set-up charge of 50c for cutting is to be added if your order for steel is under 10 pounds.



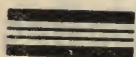
## Arc Welding Manual



This book shows you how to use your arc welder and do better work with it. It is written in plain English that any one can understand and has 77 pictures and drawings showing clearly the things told about in the instructions. After reading this book you should have no difficulty doing any welding job that your welder will handle. Here is an opportunity to learn how to get the most out of your arc welder. Paper binding. 2L10—Postpaid .....\$0.53

## Arc Welding and How to Use It

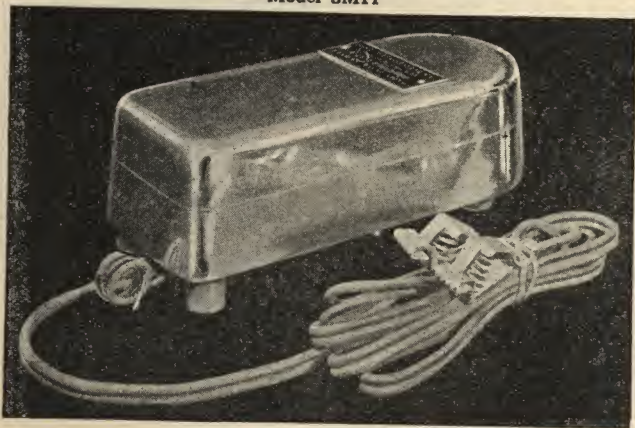
Twenty-three interesting and informative chapters, written in plain understandable English, about arc welding and how to use it. Along with the reading matter are 320 illustrations. Large clear photographs and drawings that make all the instructions so clear that you will understand them easily with the first reading. Worth many times its small cost in suggestions for saving in time and costs. Part I—General Information. Part II—Practical Welding Lessons, Instruction, Manipulation, Welding with Bare Electrodes, welding and cutting with coated electrodes, welding light gauge steel. Part III—Carbon Arc Welding, with and without filler metal, "long arc" on copper, galvanized steel, hard surfacing, bearing surfaces on steel, cast iron, bronze, etching, cutting. Part IV—Instruction on other metals. Part V—Special Information. Complete alphabetical index. Fabrikind cover. Get this book and discover how much more you can do with your arc welder. 2L12—Postpaid.....\$1.55



# LeJay Electric

## The 1940 LeJay "Fence King"

Model 3M11

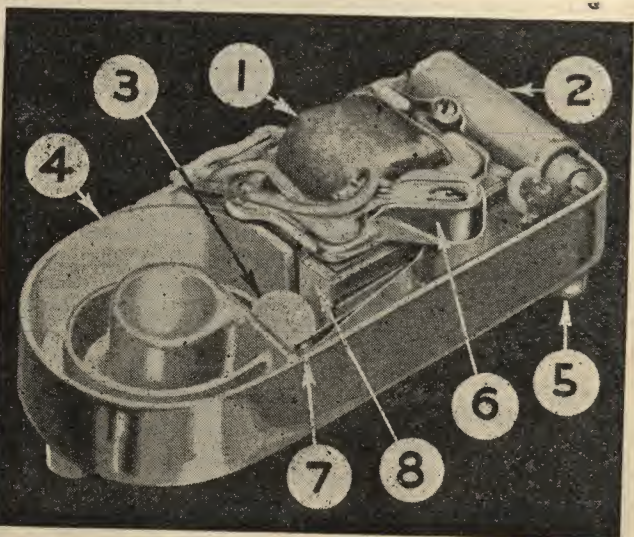


• The New LeJay 1940 "Fence King" Control is the combination of each and every up-to-date development resulting from our constant experiment and research in the field of electric fencing. For many years LeJay electric fences have given good service to large numbers of owners, and allowing them a flexible quick-change fencing program.

• Now every advantage offered in the many previous models of the LeJay line have been incorporated in this New 1940 "Fence King" to provide you with the right unit and a price to comply with your budget.

• Study the specifications of the 1940 "Fence King" as they are outlined and explained on these pages, and find out for yourself why the New "Fence King" can save you money!

• Then take advantage of LeJay's generous 30-Day Test Period Offer and allow the "Fence King" to prove its worth to you in the saving of time and money. Our 10 year guarantee is perhaps one of the strongest ever put on an electric fence control—yet we can safely guarantee the "Fence King" for 10 years because of its strong, rugged construction and built-in safety features that have been engineered.



# LEJAY MANUFACTURING



# Electric Fence

## Good Performance Built Right In!

1. Special heavy duty transformer, custom built for the "Fence King."
2. Interference suppressor for eliminating noise in radio and phone.
3. Non-conductor Dupont phenolite contact roller.
4. Solid cast aluminum case, highly polished.
5. Hard rubber feet.
6. Built-in mercury switch provides safety if controller is moved.
7. Self-wiping carbon-free tungsten contact points.
8. Breaker point assembly includes actuating transformer leg (patent applied for) encased in stainless steel.

## Safe, Economical, Dependable, Effective!

The Heart of the New 1940 LeJay FENCE KING is pictured above. Acting as a circuit breaker to deliver the time charges to the fence line, the (patent applied for) breaker point assembly is accurately adjusted and sealed at the factory. The FENCE KING requires no further attention. No parts to oil, nothing to adjust.

Cast aluminum frame and stainless steel breaker point assembly is your guarantee against rust and corrosion. The built-in mercury switch is a LeJay FEATURE that adds to the value and scope of duty the control is called upon to perform. Because of the special transformer and design of breaker assembly, the LeJay FENCE KING does not need to have a wet and dry weather switch. The FENCE KING is built for all kinds of weather.

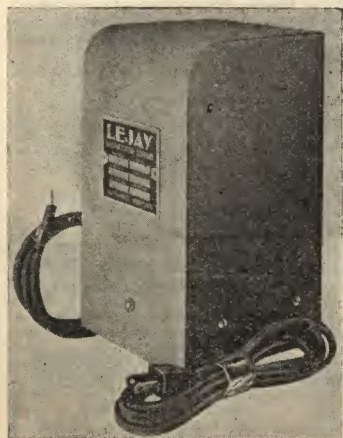
## The Up-to-the-Minute MODERN Fence Control!

The fencing of livestock is no doubt the most important application of the charged single wire yet there is no limit to the number of uses. For instance, with aid of a real low fence, rats and mice can be kept out of corn cribs, granaries, etc. By placing a single wire on a board, then embedding the board flush into the ground (wire about 2" above board and suspended with porcelain insulators), then encircle hen house or entire chicken fence, you keep out skunks, weasels, rats and all other thieving animals. Once they get shocked they stay away. Easily keep dogs away from shrubs, cats away from fish ponds, rabbits out of gardens, coyotes out of grazing grounds, and other unwelcome intruders from places they are not wanted.

### 5 Year Guarantee

#### 30 Day Test Period Offer

Each LeJay FENCE KING is thoroughly tested, adjusted and inspected before packed for shipping. We guarantee each unit to be free from defective materials and workmanship and to be exactly as represented. Because the LeJay FENCE KING is of such practical construction, simplicity of mechanism and durable, we further guarantee to repair, adjust or replace the FENCE KING free of charge at any time within a 5 year period from date of purchase. A small fee of 60 cents will be made for handling. Use the FENCE KING for 30 days and if for any reason you are not satisfied you have the privilege of returning the unit for a cash refund.



Model 3M12

### LeJay Fence King— 6 Volt Model

Operates on 6 volt storage battery, 4 dry cells or hot shot.

No. 3M11—The LeJay FENCE KING as above described. Includes complete instructions and 5 year guarantee registration card. Ship wt. 8 lbs. You pay postage..... **\$7.45**

### LeJay Fence King— 110 Volts

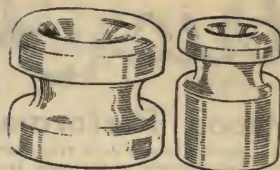
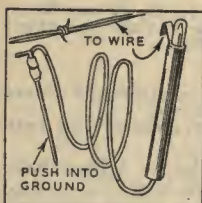
Operates on any 110 volt circuit, 50 or 60 cycles.

No. 3M12—The LeJay FENCE KING as above described. Includes complete instructions and 5 year guarantee registration card. Ship. wt. 9½ lbs. You pay postage..... **\$17.80**

# URING COMPANY

## Fence Insulators

No. 5W—Porcelain Spool Insulator for line posts as pictured at left. Complete with leather, less nail. Ship. wt. 2 oz. You pay postage.....\$0.02  
100 No. 5W insulators with leathers and 100 No. K10 Kwik Klips. Ship. wt. 10 lbs. F.O.B. ...\$1.39



TYPE 36W TYPE 5W

## Corner Post Insulators

No. 36W—High quality Porcelain Spool Insulator especially made for corner posts, gates or end of fence. Ship. wt. 3 oz..\$0.02½

## Portable Neon Fence Tester

No. 63—Portable Neon Fence Tester with 3 foot lead. Easily test fence at any point. Folds for carrying in pocket. Prepaid..\$0.77

## Pocket Neon Fence Tester

No. T6—Neon Fence Tester. Just touch fence wire—if control is working tester will flash. Postpaid .....\$0.89



## Twistite

The quickest and easiest way of fastening insulators to any standard type steel fence post—punched or not punched. The triangular shaped head affords maximum resistance to collapse. Made of No. 14 galvanized wire.

No. WW7—Per box of 100.....\$0.55



Postpaid \$0.89



KWIK GATE

## Gate Handle

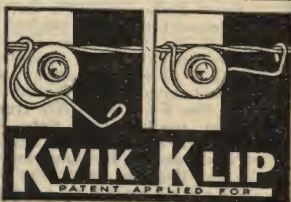
No. 64—Electric Fence Gate Handle. Complete with hook, wooden insulated handle, coil tension spring and assembled, ready for quick installation. Ship wt. 10 oz. F.O.B...\$0.18

## Kwik Klip

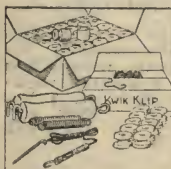
Made of high grade spring steel wire cadmium plated to prevent rusting. Can be used several times. One man can fasten many times as much fence with these Kwik Klips as he formerly could with tie wires. Holds fence securely—permits the moving of fence easily—makes gate possible anywhere merely by unclipping one or two Kwik Klips, lower the wire and drive through.

No. K5—Package of 50 Kwik Klips, we pay postage.....\$0.55

No. K10 — Package of 100 Kwik Klips, we pay postage. 1.00



Simply hook one end over fence wire close to insulator as shown. Spring other end of clip around bottom in groove and hook over wire.



## Accessory Combination Kit

200 Insulators No. 5W, 200 Kwik Klips No. K10, 10 Corner Knobs No. 36W, 2 Gate Handles No. 64, and 1 Neon Tester No. 63 all included in one kit. Shipping weight 42 pounds. F.O.B. ....\$4.75

## Fence Sign



3M12—Electric Fence Sign. Meets Wisconsin specifications. Required by law in some of other states for boundary line fences. Hooks onto fence wire. Ship. wt. 3 oz. ea. F.O.B. 6 signs.....\$0.29

The electric fence sure has a kick to it. I read your manual all through and the plans are clear enough for anybody to understand.

Delbert Grundahl,  
E. Grand Forks, Minn.

**LEJAY MANUFACTURING CO.**





Do not hit or beat that stubborn animal—clubbing an animal often causes spoiled meat from the bruise and usually a lower return in dollars and cents when sold. A quick way to load and unload cattle. Easily carried and operated by pressing control button. Works off 4 flashlight cells.

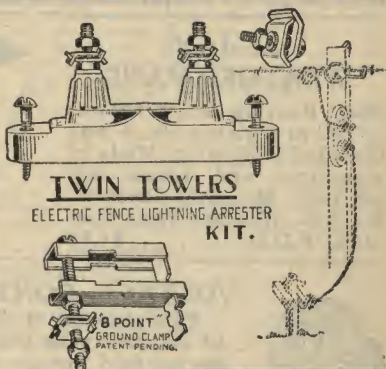
No. 409—LeJay Cattle-Jack. Ship. wt. 6 lbs. F.O.B. .... \$5.70

## "TWIN TOWERS"

### Electric Fence Lightning Arrester Kit

The outstanding lightning arrester; properly designed for electric fence use. Use one TWIN TOWERS lightning arrester near but not on the controller. If controller is located inside a building, place arrester just outside building. For better protection place an arrester at each corner of the fence.

7 Outstanding Features  
No. 3M4—Complete with fence wire clamp, new and improved "8 Point" ground clamp and mounting screws. Shipping weight 5 ounces ..... \$0.45



## "SPOT-BEAM"

### The Ideal BED LAMP!

SPOT-BEAM is the famous New Lamp that focuses its glare-less beam on YOUR book, leaving the rest of the room in a restful sleepytime glow that soothes and refreshes.

- Attaches to any bed easily, with rubber covered adjustable clamp.
- Ball and socket joint gives adjustment to any desired angle.

- Powerful convex lens gives ample light from 25 Watt bulb.

- Beam is confined to a small area. Not disturbing to others.

S.B. 6 volt. Ship. wt. 2 lbs. Complete with bulb ..... \$1.49

S.B. 12 volt. Ship. wt. 2 lbs. Complete with bulb ..... 1.54

S.B. 32 volt. Ship. wt. 2 lbs. Complete with bulb ..... 1.44

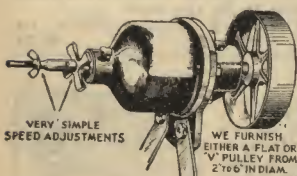
S.B. 110 volt. Ship. wt. 2 lbs. Complete with bulb ..... 1.39

You pay postage on above.



## Engine Governors

### Especially Suited for Arc Welder Engines



used on engine—also state if pulley is flat or "V" type.

9J21—Candee-Smith Gas Engine Governor, with "V" pulley Shipping weight 6 pounds. F.O.B. .... \$7.50

If you want a flat pulley, there will be a slight additional charge. Give speed, type and diameter of pulley on your engine when ordering governor.

CANDEE-SMITH Auto Engine Governor. Our governor controls the speed of any make of auto or marine engine (except the outboard) regardless of load changes. It is fully guaranteed. An excellent compact device and will give wonderful service. Pays for itself in a short time saving fuel, labor and engine wear. There is no substitute for a mechanical engine governor. When ordering please state speed of engine and size of pulley.

## Genuine Mazda BULBS INSIDE FROSTED



Standard  
Screw  
Base



6 volt, 15 watt.....	\$0.25	12 volt, 15 watt.....	\$0.30
6 volt, 25 watt.....	.25	12 volt, 25 watt.....	.30
6 volt, 50 watt.....	.35	12 volt, 50 watt.....	.40
28-32 or 32 volt, 15 watt.....			\$0.20
28-32 or 32 volt, 25 watt.....			.20
28-32 or 32 volt, 50 watt.....			.20
28-32 or 32 volt, 100 watt.....			.33
28-32 volt, S-14 clear, 10 watt.....			.30

We do not ship orders less than 6 bulbs. Shipping weight figures 4 bulbs per pound. You pay postage on all bulb orders.

### LE JAY WEATHER VANE

**Ball Bearing Construction**

Tell at a glance which way the wind is blowing. Made of aluminum and brass, will not rust. Measures 12"x14".  
No. A2—Weather Vane complete, F.O.B. ....\$1.95



### VOLTAGE CONTROL RHEOSTAT

This rheostat is double duty (will carry 10 amperes peak load) and is designed for use in field circuit of most generators to control output.

No. SW1—Rheostat, complete with knob and 6 ft. shielded wire—for panel mounting—postage paid .....\$1.95

No. SW2—Rheostat for controlling A.C. generator (Plan 1) post-paid .....\$1.55

No. SW3—Rheostat for controlling Tractor Lights as described in LeJay Plan No. 42. We pay postage.....\$1.55

### Wire Wound Rheostats 25 Watt

No. W1 — 1 ohm 25 watt rheostat with knob. We pay postage. \$1.55

No. W2 — 2 ohm 25 watt rheostat with knob. We pay postage. 1.55

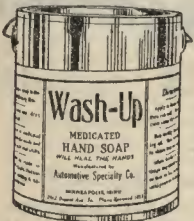
No. W3 — 3 ohm 25 watt rheostat with knob. We pay postage. 1.55

No. W6 — 6 ohm 25 watt rheostat with knob. We pay postage. 1.55

No. W10—10 ohm 25 watt rheostat and knob. We pay postage. 1.55

No. W15—15 ohm 25 watt rheostat and knob. We pay postage. 1.55

No. R—Double duty rheostat for controlling 6 and 12 volt motors used in Troller, Go-Bike, Scooter, etc. Ship wt. 10 oz. F.O.B...\$2.75



### FINEST MEDICATED HAND SOAP

One of the most effective hand soaps on the market. Contains no injurious ingredients. Medicated to keep the skin in the best of condition. Contains corn meal combined with an antiseptic and healing compound. No sand or emery dust used in making Wash-Up, consequently it will not roughen the hands. Removes grease, oil, acid, ink stains, paint (if not set) and other dirt. Used by farmers, engineers, artisans, doctors, and business men. Wash-Up is very economical to use because only a small amount is required to do the work.

Wash-Up Hand Soap, 2 lb. can. Ship. wt. 2½ lbs. You pay postage.....\$0.21

### BULL DOG

#### Friction and Rubber Tape

This tape is perhaps one of the best known makes on the market today. Is cellophane wrapped giving you more tape per pound than if wrapped in tin foil. Always use rubber tape under friction tape when doing electrical work. This rubber tape is self vulcanizing.

No. BD4—Friction tape, 4 oz. roll, F.O.B.. \$0.09

No. BD8—Friction tape, 8 oz. roll, F.O.B.. .17

No. RT4—Rubber tape, 4 oz. roll, F.O.B.. .09

No. RT8—Rubber tape, 8 oz. roll, F.O.B.. .17

Ship. wts. 4 oz. roll, 6 oz.; 8 oz. roll, 10 oz.



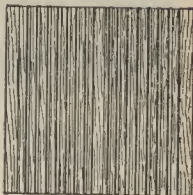


# Repair Your Own Batteries

## Separators

Genuine Port Orford cedar. Positively one of the best values on the market. All standard groove and thickness. They come oversize for you to cut to fit. For auto battery (wood.) Each .....\$0.03  
For farm light batteries the separators come in two sizes:

Farmlite, 5 3/4" (wood), each .....\$0.04  
Farmlite, 7 1/2" (wood), each .....\$0.04 1/2  
Farmlite, 5 3/4" (rubber), each .....\$0.08  
Farmlite, 7 1/2" (rubber), each .....\$0.09  
Shipping weight 2 oz. per separator. You pay postage.



## Auto Battery Plates

Made of finest materials. No filling material used to cheapen plates. Mention either positive or negative when ordering. You pay postage.

4 1/4" high, 7/8" thick, each. Ship. wt. 12 oz....\$0.15  
4 1/4" high, 1" thick, each. Ship. wt. 12 oz....\$0.17  
4 3/4" high, 7/8" thick, each. Ship. wt. 13 oz....\$0.17  
4 3/4" high, 1" thick, each. Ship. wt. 13 oz....\$0.17  
4 3/4" high, 1 1/8" thick, each. Ship. wt. 13 oz....\$0.17  
4 3/4" high, 1 1/4" thick, each. Ship. wt. 13 oz....\$0.17  
5 1/4" high, 1" thick, each. Ship. wt. 13 oz....\$0.17

Be sure to include enough money to cover postage.

## FARMLITE BATTERY PLATES

160 Amp. Pos. 5"x5 5/8", each.....\$0.34  
160 Amp. Neg. 5"x5 5/8", each.....\$0.29  
240 Amp. Pos. 7"x5 5/8", each.....\$0.45  
240 Amp. Neg. 7"x5 5/8", each.....\$0.39

Shipping weight averages 1 lb. per plate.

When ordering plates take a plate from your battery and outline it on paper, then send with order so we will be sure to ship proper size. Shipping weight averages 1 lb. per plate.

You pay postage.

## SEALING COMPOUND

Good sealing compound is more and more a necessity with the rubber and composition cases. This compound is soft, pliable and sticky and hundreds of users pronounce it the best.

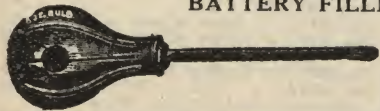
T9—15 oz. packages, ship. wt. 1 lb. F.O.B..\$0.19

## BATTERY ACID

1 Pt. Ship. wt. 2 lbs. F.O.B. Minneapolis..\$0.29

Not mailable and must be shipped by express.

## BATTERY FILLER



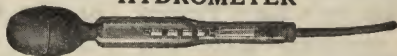
For adding water to your storage batteries we are offering these at an unusually attractive price. Complete with bulb and stem. No. 91. Ship. wt. 1 lb..\$0.29



## HYDROMETER

For testing the condition of your storage batteries. Floating bulb type. Reading is easily seen. Don't over-charge your batteries! Don't let your batteries become discharged! Save money by checking your batteries!

No. 92. Hydrometer, complete. Ship. wt. 1 lb.....\$0.39



## BATTERY CONNECTORS AND CARRIER

Jumper connectors for charging batteries. Easily twists on to posts with fingers—easily removed the same way. No corroding, always a good contact. Fits either positive or negative posts. 39A1—Jumper Connectors, per set of two .....\$0.19

Latest type carrier, takes regular or reverse assembly batteries with ease. An easy, quick and secure way of carrying your battery. 39A2—Battery Carrier as shown. Ship. wt. 6 oz..\$0.19

Radio connectors as shown at left is a new way to connect radio to battery. Fasten one of the connectors to each battery wire and then twist onto battery. No corroding, easily put on and taken off.

39A3—Radio Battery Connectors, per set of two.\$0.18



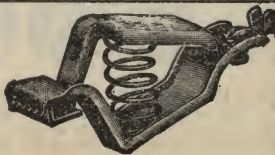
## BATTERY CLIPS

7G55—Cadmium plated. 2" long. Screw terminal. Per pair .....\$0.08

7G80—Cadmium plated. 2 1/2" long. Screw terminal. Per pair.....\$0.10

7G60—Cadmium plated. 4" long. Screw Terminal. Per pair....\$0.16

(Add 2c per pair for postage.)



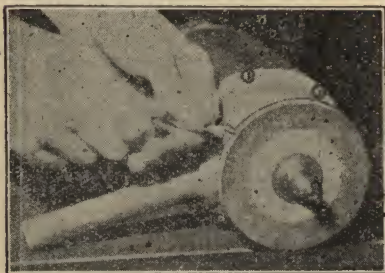
# Look ! ! ! A ½-Inch Drill for \$15.95



Uses  
6 or 12  
Volt  
Car  
Battery

This heavy duty ½" battery drill is an original LeJay development, designed especially for use on farms, service trucks, or any place where 110 volts is not accessible. Working directly from an ordinary storage battery, the LeJay Drill is completely portable, carrying the power to the work instead of requiring the removal of heavy pieces to the power source. This drill attains **FULL POWER** at 6 volts, and will operate safely on 12 volts, developing **DOUBLE POWER**. This feature makes it an ideal tool for garages and filling stations, as it may be clipped directly to the battery of the car on which work is to be done.

Equal to  
110 Volt  
Drills  
Costing  
from \$30  
UP!

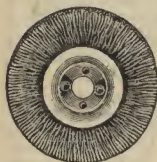


Each LeJay Drill handles wire wheels, grinding or buffing wheels, and has a built-in switch in the handle. Equipped with 6' battery leads and clips. Weighs 17 pounds.

No. 31—Drill for 6-12 V. With ½" chuck. Ship. wt. 20 lbs. F.O.B. .... \$15.95

No. 32—Drill for 32 Volts With ½" chuck. Ship. wt. 20 lbs. F.O.B. .... \$15.95

## LeJay Drill Accessories



No. 825—4" Wire Wheel, coarse or fine. Ship. wt. ½ lb. .... \$0.60

No. 926—6" Wire Wheel, coarse or fine. Ship. wt. 1 lb. .... .70

No. 821—4" Grind Wheel, coarse. .50

No. 822—4" Grind Wheel, fine. .50

Ship. wt. each grind wheel 1 lb.

No. 823—4" Buffing Wheel ..... .20

No. 823A—6" Buffing Wheel.... .30

Ship. wt. each Buffing Wheel, 6 oz.

No. 360—Chuck, threaded ½"-24, capacity ½". Ship. wt. 1 lb.. \$1.45

## LeJay's Low Priced Quality Drill

The LeJay Quality Drill is identical to Drill Nos. 31 and 32 except it does not have aluminum end castings, upper handle or "On and Off" switch. Takes all size drills up to ½ inch. Cord and battery clips included.

No. 33—Quality Drill for 6 or 12 volts. Complete as shown, less bit. Ship. wt. 19 lbs. F.O.B. .... \$9.95

No. 34—Quality Drill for 32 volts. Complete as shown, less bit. Ship. wt. 19 lbs. F.O.B. .... \$9.95



## LeJay Drills in Kit Form

Assemble your own drill and save as much as \$2.50. LeJay is always trying to save you money. If you have a few minutes spare time, buy your drill in kit form and save. View at left shows No. 31 drill ready for assembly.

No. 31K—Drill No. 31 in kit form. Ship. wt. 20 lbs. F.O.B. .... \$13.45

No. 32K—Drill No. 32 in kit form. Ship. wt. 20 lbs. F.O.B. .... 13.45

No. 33K—Drill No. 33 in kit form. Ship. wt. 19 lbs. F.O.B. .... 8.75

No. 34K—Drill No. 34 in kit form. Ship. wt. 19 lbs. F.O.B. .... 8.75

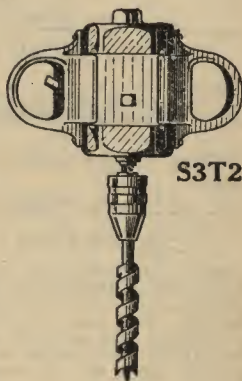
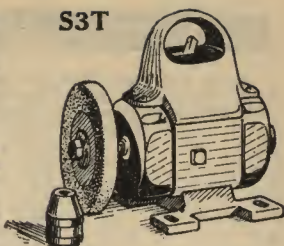


## UTILITY MOTORS

Low cost Electric Tools for operation away from power lines. Especially suited for high line, utility, construction and repair trucks. Using truck battery, one auxiliary battery and a simple switching arrangement, makes 12 volts easily available for heavier jobs.

**S3T**—Same motor as S3, (see page 16), except with aluminum end caps and threaded shaft for chuck or grinding wheel. Includes handle, switch, base, 6 ft. cable, battery clips and wheel attachments. Shaft 24 threads. Regular  $\frac{1}{2}$ " bore pulleys can also be used. Ship. wt. 19 pounds. F.O.B. .... \$16.50

**S3T2**—Same motor as S3T except with two handles and includes  $\frac{1}{2}$ " chuck. Ship. wt. 20 lbs. F.O.B. \$17.75



### ROTARY BURRS



### ROTARY BURRS

—for pattern work, wood carving, finishing, sharpening tools, model making and many other practical uses. Can be used with LeJay Drills and other standard drills, also small hand grinders. Shanks are  $\frac{1}{8}$ ". Burrs illustrated are full size.

**No. 84-8897**—Set of six for wood and plastics. Postpaid. .... \$1.57

**No. 84-8885**—Set of six for wood, plastics and soft metal, pre-paid ..... 2.75

**No. 84-8886**—Set of six for metal work. Postpaid ..... 2.75

### Flexible Shaft Workshop



110 to 120 volts, A.C. and D.C., flexible shaft assembly, handpiece 50-piece accessory set and swinging wall bracket. Shipping weight 9 pounds. You pay postage. .... \$14.95

No end to the jobs you can handle with this versatile tool set. Pencil-size handpiece, which accommodates both  $\frac{3}{32}$ " and  $\frac{1}{8}$ " shanks, gives you deftly controlled power at your finger tips. With it you can work in hard-to-reach places with professional precision. Accessories can be interchanged almost instantly. Handles hundreds of jobs which bulkier tools cannot be employed on.

Use this tool for grinding, drilling, milling, sawing, polishing, engraving, rust-removing, sharpening, slotting, carving, cleaning, sanding, scratch-brushing, commutator-slotting, carving, etc., etc.

**No. 35E**—Complete set, as illustrated, comprises universal motor, operating on

### 110 VOLT SOLDERING IRON



A good all-around soldering iron for light work, radio, homecraft, etc. Copper tip  $1\frac{1}{2}$ " x  $\frac{5}{8}$ ". 5-foot cord and plug. Overall length 12". **No. 51B**—50 watt 110 volt iron. Ship. wt. 1 lb. You pay postage ..... 98c

## TAPS AND DIES

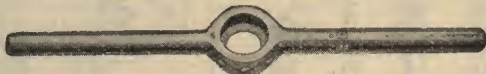


These taps and dies are of high carbon steel, electrically heat treated, and guaranteed accurate and easy cutting.

Size	Threads per Inch U.S.S.	Tap Price	Die Price
3/16"	24	\$0.10	\$0.10
1/4"	20	.12	.12
5/16"	18	.12	.12
3/8"	16	.15	.15
7/16"	14	.15	.15
1/2"	13	.20	.20

You pay postage. See rate at bottom of this page.

## WRENCH FOR HOLDING DIES

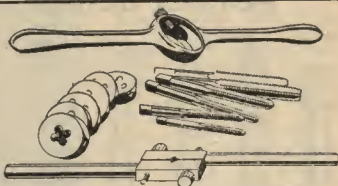


Drop forged steel die stock to hold the above listed dies.....\$0.15

You pay postage. See rate at bottom of this page.

## Complete Set

This set includes 6 above listed taps, 6 above listed dies, die holder, also tap and reamer wrench. You save 13c when purchasing this complete set. No. T6DW—Set as above described. Ship. wt. 1 3/4 pounds. F.O.B. ....\$1.85

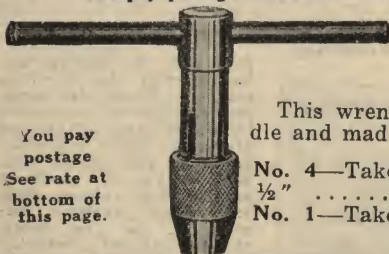


## TAP AND REAMER WRENCH



Made of steel and holds any of above listed taps...\$0.15

You pay postage. See rate at bottom of this page.



## T-TAP WRENCH

This wrench has a sliding handle and made in two sizes.

You pay  
postage  
See rate at  
bottom of  
this page.

No. 4—Takes taps 1/4" to 1/2" .....\$0.27  
No. 1—Takes 3/16" tap only.. .16

## STRAIGHT SHANK DRILLS

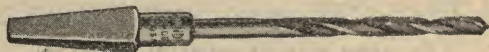


1/8".....\$0.10	7/32".....\$0.15	3/8".....\$0.35
3/16"......10	1/4"......15	1/2"......40
1/4"......12	5/16"......20	3/4"......45
5/16"......12	3/8"......20	1"......50
3/8"......14	7/16"......30	1 1/2"......60

You pay postage. See rate at bottom of this page.

## BIT STOCK DRILLS

These drills are for use in a bit brace for drilling either metal or wood.



1/8".....\$0.20	1/4".....\$0.25	3/8".....\$0.50
3/16"......20	5/16"......40	

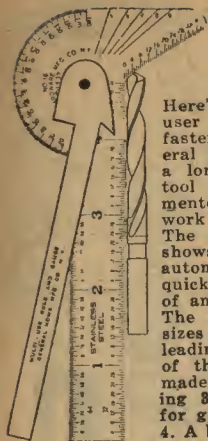
You pay postage. See rate at bottom of this page.

For all items on this page: Add 10c postage on orders up to 50c and on orders over 50c add 15c for postage.

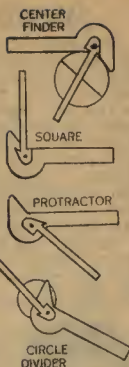
**LEJAY MANUFACTURING CO.**



## MULTI-USE RULE AND GAUGE



Here's an invention that every tool user will appreciate. For better, faster and accurate work, the General Multi-Rule and Gauge fulfills a long felt need for mechanics, tool makers, draftsmen, experimenters and all tool users whose work demands speed and accuracy. The front view in cut pictured shows how simply and almost automatically you accurately and quickly get the exact measurement of any angle at a hairline degree. The back of the gauge has drill sizes which are standardized by leading industries. Here are a few of the features of this precision made instrument: 1. A quick reading 32nds and 64th scale. 2. A drill point gauge for grinding correct 59 degree angle. 3. A square. 4. A bevel protractor. 5. A center finder. 6. A circle divider. 7. A tap drill table listing machine, U.S.S., and S.A.E. National Form of Thread Sizes. 8. Made



of stainless steel.

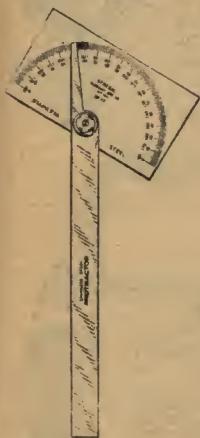
AS A CENTER FINDER with edge "C" along edge "D," lay circle tangent to edges "B" and "D" in two positions, and mark line "E" along edge "F." The intersection of these 2 lines is the center of a circle. AS A SQUARE—when edge "A" lies along edge "B." AS A BEVEL PROTRACTOR—edge "E" along reading of scale "P," gives angle "R." AS A CIRCLE DIVIDER—edge "E" along graduations of scale "S" gives central angle "T" dividing circle into the desired number of equal parts indicated in scale reading.

No. GH—Rule and Gauge complete, postpaid.....\$0.99

Protractor

Drill Gauge

Pocket Rule



GENERAL		DRILL & WIRE GAUGE INDEX	
FOR MACHINE SCREW TAPS		GENERAL EQUIVALENTS	
TAP SIZE	DRILL	DRILL	DRILL
2-36	50	44	128
2-44	50	44	128
3-48	47	39	201
3-56	45	39	201
4-36	44	33	213
4-40	43	33	213
4-48	42	33	209
5-40	38	1/8	205
5-44	37	1/8	205
6-32	36	28	204
6-40	33	28	204
8-32	29	19	201
8-36	29	19	201
10-24	25	11	199
10-32	21	11	199
12-24	16	7/32	193
12-28	14	7/32	193
14-20	10	C	191
14-24	7	C	191
1/4-20	7	1/4	187
1/4-28	3	1/4	187

GENERAL HARDWARE MFG. CO.  
NEW YORK CITY N.Y.



No. 17—STAINLESS STEEL PROTRACTORS—Tested for accuracy. For transferring of angles, setting of bevels, etc. Graduated from 0 to 180 degrees in opposite directions. Size of head 3 3/8" x 2". Arm 8" long. Postpaid.....\$0.99

No. 14—DRILL GAUGES—Every mechanic can now afford these accurate Drill Gauges. Tested for accuracy. Made of hardened and tempered steel, ground tool finish. Easy reading clear numerals. Size 2 3/8" x 6 1/4". Measures drills 1/16" to 1/2". Postpaid.....\$0.99

No. 301—Stainless Steel 6" Pocket Rule and Depth Gauge with clip. Quick reading in 64ths graduations. 1/4" wide. Postpaid.....\$0.10

## Electric Clipmaster

### For Clipping Horses and Dairy Cows

Quiet, powerful, ball-bearing motor. Completely self-contained inside handle. Air-cooled by its own fan and with ball-bearings instead of bushings for longer service and fast, cool, heavy duty clipping. Fully insulated, no ground wire to bother with. Uses no more current than a light bulb. Complete with one set cutting plates, 20 feet of rubber covered cord and unbreakable wall plug.

No. 7G51—Electric Clippers; 110 volt, A.C. or D.C. current. Ship. wt. 7 lbs. F.O.B.....\$19.95



## MICROMETER

Standard 1" size. Full polished chrome. Accurate. Adjustable anvil. Hardened steel spindle. Both spindle and anvil are hardened steel, ground to size and rigidly inspected. Adjustment for zero setting is in the anvil. Frame is an alloy casting with machined sleeve reamed to an accurate spindle fit. Thimble is a special alloy casting accurately calibrated. Finish is chrome on nickel. Hard, wear-proof, and full-polished. Each micrometer individually packed in a lock-corner, slide cover box. Guaranteed accurate within 1/1000 of an inch.

No. GL—1" Micrometer individually boxed, postage paid.....\$0.99

Special low priced, highly accurate micrometer for measuring wire sizes, thickness of sheet metal, paper stock, etc.

No. GA—1" opening Micrometer, post paid .....65c

No. GB—½" opening Micrometer, post- paid .....45c



## PIN VISE

This vise, as shown at left, has a chuck capacity of ⅜". Is used for holding small files, awl points and various small hand tools.

No. 8J1—Pin Vise, postpaid.....\$0.23

## HAND DRILL

A hand drill that has been especially made for handling drills up to ¼" and for drilling in hard-to-get-at places. Chuck takes all round shank drills up to and including ¼".

No. 8J2—Hand Drill. Ship. wt. 10 oz.

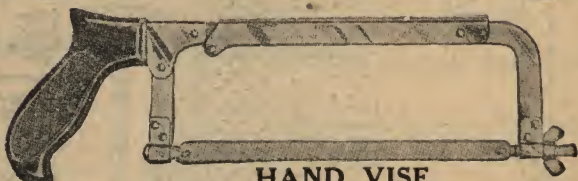
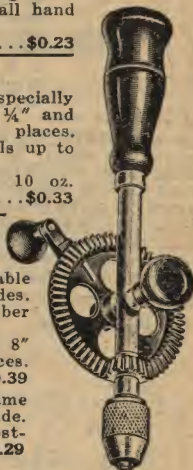
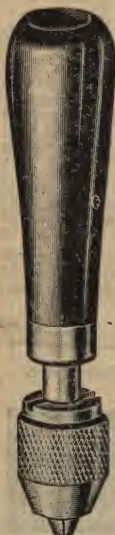
You pay postage.....\$0.33

## HACK SAW FRAME

Each hack saw frame is adjustable for taking 8", 10" or 12" blades. Pistol grip handle of solid rubber composition. Nickel plated frame.

No. 8J3—Hack Saw Frame with 8" blade. Shipping weight 14 ounces. You pay postage.....\$0.39

No. 8J31—Same as 8J3 except frame is unadjustable. Includes 10" blade. Ship. wt. 13 oz. You pay postage .....\$0.29



## HAND VISE

Here is a tool of many uses. Holds small articles firmly when doing fine work. 1¼" jaws, red wood handle, sturdily built.

8J4—Hand Vise. Shipping weight 8 oz. ....\$0.28

## PLUMB-BOB

Build true. A Plumb-line is the simplest means to accuracy in building. Of Hexagon Steel. Cord is exactly centered by screw cap.

8J5a—3oz. Plumb-Bob. Ship. wt. 6 oz. ....\$0.10

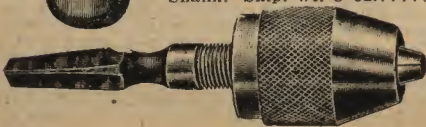
8J5b—8 oz. Plumb-Bob. Ship. wt. 1 lb. ....\$0.25

## DRILL CHUCKS

¼" capacity Drill Chucks mounted on shanks to fit Bit Brace or Machine Drill. Makes possible the use of small straight shank drills in a bit brace, or heavy drill of specific chuck capacity.

8J6—¼" Drill Chuck on Bit Brace Shank. Ship. wt. 8 oz. ....\$0.25

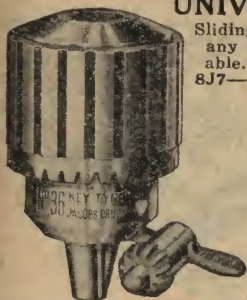
8J6a—¼" Drill Chuck on Straight Shank. Ship. wt. 8 oz. ....\$0.25





## GENUINE JACOBS CHUCK

Light duty, key type, plain bearing, improved design. Nickel molybdenum alloy steel jaws. Capacity 0" to 1½". Diameter 2". Overall length 3¾".  
**8J8—Jacobs Chuck, threaded ½"x24.**  
 Ship. wt. 2 lbs.....\$7.50



## UNIVERSAL BEVEL

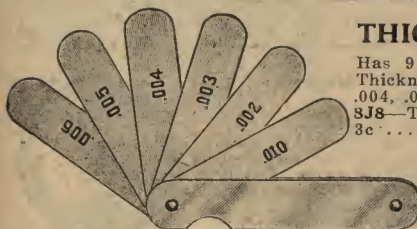
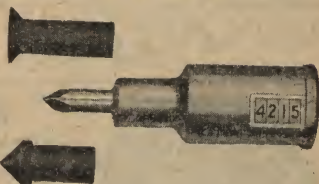
Sliding "T" Bevel. Locks in any position. Angles adjustable. Graduated.  
**8J7—Universal Bevel. Shipping wt. 8 oz.....\$0.25**



## CLUTCH SPEED COUNTER

The handiest R.P.M. counter on the market. Works with ordinary watch. Hand pressure controls the new automatic spring clutch to start or stop the count without the necessity of watching.

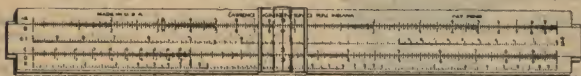
**8J9—Speed Counter with two rubber tips. Ship. wt. 8 oz.....\$3.50**



## THICKNESS GAUGE

Has 9 leaves with a 2" rule. Thicknesses .0015, .002, .003, .004, .005, .008, .010, .012, .015.  
**8J8—Thickness Gauge. Postage 3c.....\$0.25**

## Low Priced Slide Rules



Large production now brings this slide rule within easy reach of your pocketbook. Get one today and do your figuring without use of pencil and paper. Enables you to do difficult calculations instantly—multiplying, proportions, division, extracting roots, etc. Accurate white composition face. Has Standard A, B, C, D, CI, and K scales. Instructions printed on back of each rule.

**No. 8B—Slide rule 8 inches long with case. Postpaid.....\$0.15**

**No. 10B—Slide rule 10 inches long with case. Postpaid......25**

**No. 10BD—Slide rule 10 inches long with magnifier on hair line indicator. Imitation leather case included. Postpaid......50**

## MANUAL FOR SLIDE RULE

A fine authentic text on slide rule operation written by Professor John Poland (University of Purdue). For the novice or expert. Anyone from seventh grade up can now learn to use the slide rule. Gives complete instructions on how to Multiply, Divide, Square, Cube, Extract square and cube roots, etc.

**No. 2L5P—Book, if purchased with any above rules. Postpaid.....\$0.05**



# LEJAY MANUFACTURING CO.

# SPECIALS!

## HALF PRICE AND LESS

The following High Quality merchandise is being offered at half price and less for QUICK clearance. When supply is exhausted we will not be able to duplicate at these "give away" prices.

### BODINE MOTORS

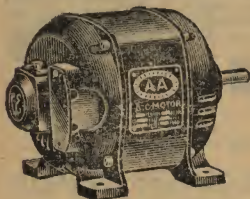
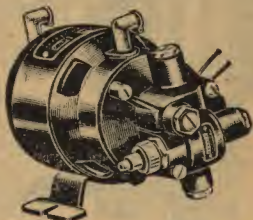
110 volt 50-60 cycle, 1500 r.p.m. 1/30 H.P., 2 1/4" shaft.

No. BM24—Close out price. Shipping weight 5 lbs. .... \$1.95

No. BM35—Speed 10,000 r.p.m. with gear reduction 324 to 1. H.P. 1/30, 110 volt 50-60 cycle. Close out price. Shipping weight 6 lbs. .... \$4.45

While they last! A regular \$175.00 welder for exactly half price. You pay only \$87.50 F.O.B.

Each Welder In Original Crate



### Westinghouse Motors

Genuine Westinghouse 1/4 H.P. motors sold at following unheard of low prices. Compare these prices with other mail order houses for such a quality motor. Order now while limited supply lasts. No. W110 Westinghouse 1/4 H.P. 110 volt A.C. 60 cycle 1725 r.p.m. Will stand large per cent overload. Ship. wt. 28 lbs. F.O.B. .... \$5.50

### 20-0-20 D. C. Weston Ammeter Closeouts

Originally made for the Government. Can be used on any make 6, 12, 32 or 110 volt plant that does not charge over 20 amperes. Also recommended for the following LeJay Generators: X10, 300, 403A, 410, 1405, 405, and 332.

No. 31W—Weston Ammeter, at huge savings while limited stock lasts. .... \$0.73



### Pocket Flashlight

This small pocket flashlight is made of an unbreakable molded composition and comes in 7 smart colors: Red, Green, Aquamarine, Ivory, Yellow, Coral, Blue. Has a genuine GE Mazda lamp and battery. Battery lasts up to 3 months and only costs 5c. Tips are translucent which make them combination spotlights and spreadlights.

No. 600—Pocket Flashlight with bulb, less battery, postpaid. .... \$0.17

### MAG-NI-LINE Magnifiers

Beautiful, efficient, the Mag-Ni-Line has ball and socket adjustment to hold the lens firmly in any position. The hands are entirely free to manipulate the object being observed. The quality of the lenses eliminate distortion often found in ordinary glasses.

Ideal for stamp collectors.



K50 —1 1/2" Commercial Glass Lens, Ball Joint at Base Only ... \$0.65

K75 —1 1/2" Comm. Glass Lens, Ball Joints at Base and Lens ... .95

K150—2" Optical Glass Lens, Ball Joints at Base and Lens. 1.85

All Mag-Ni-Line Glasses are sent to you Postpaid.

I rewound a model "T" generator from your plans and it was perfect. It was the first time I ever rewound an armature.  
Damer Glassburn, Belleville, Illinois.



# G-E TUNGAR ARC WELDER

for High-quality, Low-cost Arc Welding from  
Lightest-gauge Metals to 1/4-inch Plate

Every progressive automobile repair shop needs this new Tungar D.C. Arc Welder to complete its service equipment. The Tungar Welder has ample capacity for welding all parts of a car or truck from heaviest chassis frame or cylinder block to lightest-gauge fenders and sheet-metal parts. It occupies very little space. The Welder is available in single-phase, 50-60 cycles, 220 volts.

## RATED OUTPUT—DIRECT CURRENT

Welding amperes, normal rating, NEMA.....	25 to 75
Welding amperes, range.....	15 to 90
Normal welding voltage.....	20 to 23
Open circuit striking voltage.....	56

Built to Fire Underwriters' specifications.

## POWER INPUT—ALTERNATING CURRENT

Power consumption (With 20 to 23-volt Arc)

at 75 amp.....	.3 kw.
at 25 amp.....	1 1/4 kw.
at no-load.....	1/2 kw.

## Power Factor

at 75 amp.....	.66%
at 25 amp.....	.82%

## TUNGAR ARC WELDER BULBS

The newly developed Tungar Arc Welder Bulbs are of especially strong internal construction to withstand rough handling of the unit. Special glass, similar to Pyrex, protects the filament and assures long life. The bulbs have ample capacity to withstand high momentary overloads. All Tungar Bulbs are guaranteed against operating failure on welding duty for one year. This does not include mechanical breakage. Actual operating life averages 2000 hours.

## ELECTRODES RECOMMENDED

The Tungar D.C. Arc Welder uses electrodes 1/8 in., 3/16 in., and 1/4 in. in diameter. The Tungar uses all standard bare, lightly fluxed and heavily coated electrodes as well as

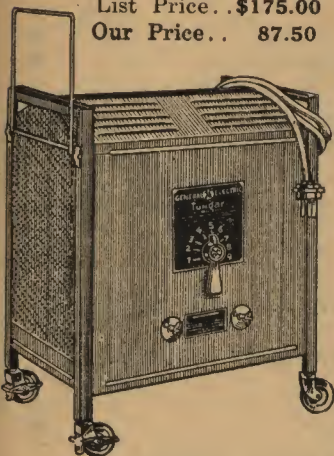
carbon pencils, aluminum and stainless steel electrodes.

Diameter of Electrode	Tap Setting	Approximate Current
1/8 in.	1-2-3	18 to 25 amp.
3/16 in.	3-4-5	28 to 45 amp.
1/4 in.	6-6-7-8-9	48 to 90 amp.

Many of the special electrodes require reversed polarity. This is quickly obtained on the Tungar by simply reversing the welding leads.

1. Direct-current welding—The G-E Tungar Arc Welder rectifies alternating current by means of Tungar Mercury Bulbs. It provides direct current, which is particularly suited to arc welding. They are similar to the Tungar Bulbs used for more than 20 years by the Automotive Industry. 2. Simple internal construction—assures minimum maintenance expense. There are no moving parts. 3. Designed to give dependable service—The carefully engineered G-E transformer is vacuum-impregnated and Glyptal-insulated to provide dependable operation. Core, windings and insulation are accurately proportioned to give economical operation with minimum weight. 4. High momentary overload capacity—the Tungar Bulbs are designed with ample capacity to withstand high momentary overloads. They are of strong internal design to prevent breakage due to rough handling. Specially developed glass envelope protects filament and insures long life. 5. Instant connection to line—tough all-rubber cable with handy plug makes for easy connection to proper A-C power line. 6. Handy terminals and wing nuts make connection of welding leads simple. Nameplate gives instructions for reversing polarity. 7. Compensation for "high" or "low" line voltage—two extra primary taps meet most line-voltage conditions. 8. Easy current selection—large, 9-point Arc Control Selector has clear indicating dial. 9. Fully protected—strong, welded, sheet-steel case protects Tungar Bulbs and other internal parts against falling objects and dripping liquids. 10. Further protection—bulb sockets are spring-mounted to provide cushioning action and prevent breakage of Tungar Bulbs. 11. Ample ventilation—perforated side panels and louvers in top provide ventilation. 12. Full portability—hard-rubber wheels mounted on swivels provide easy mobility. Novel locking feature on two wheels holds unit stationary while in use. 13. Easy to operate—all the operator has to do to prepare for welding is to connect the leads, plug into the proper primary socket, adjust the current according to operating directions and strike the arc.

No. 6RB—General-Electric Welder as above described including 4 Tungar Bulbs. Height 27"x24"x14". Shipping weight 198 lbs. (List Price \$175.00.) You pay transportation..... \$87.50



## LeJay Carbon Motor Brushes

Springs of the proper tension, pigtails of the proper carrying capacity and flexibility, proper tolerances on dimensions together with correct carbon grade make these brushes exact replacements for the particular motor for which they are intended.

### CENTURY TYPE SR

No.	HP	Frame	No.	Per Set	Each
C-1	$\frac{1}{8}$ , $\frac{1}{4}$	M-5, M-5X, M-6	4	\$0.13	
	$\frac{1}{5}$ , $\frac{1}{4}$	M-6			
	$1, 1\frac{1}{2}$	P-6			
C-1P	Same with Pigtails		4	.22	
C-2	$\frac{1}{8}$ , $\frac{1}{4}$	M-7, RS-1 $\frac{1}{2}$	4	.14	
	$\frac{1}{8}$ , $\frac{1}{2}$	M-8, RM-10, P-2			
	$1, 1\frac{1}{2}$	RS-2			
C-2P	Same with Pigtail		4	.24	
C-3	$\frac{1}{4}$ , $\frac{1}{2}$	RS-2, P-2	4	.23	
	$\frac{3}{4}$ , 1	P-3, 202, 204			
	$1\frac{1}{2}$	P-4, RS-4B, RS-5,			
		RS-6, RS-38			
C-3P	Same with Pigtail		4	.37	
C-4	$\frac{3}{4}$ , 1	P-5, RS-6B, RS-8	4	.30	
	$1\frac{1}{2}$ , 2	P-6, P-7, P-10			
C-4P	Same with Pigtails		4	.62	
C-5	$1, 1\frac{1}{2}$	P-15, P-10	4	.42	
	2, 3	RS-13, RS-15			
	5				
C-5P	Same with Pigtails		4	.80	
C-6	$7\frac{1}{2}$ , 10	P-17, P-18, RS-19	4	.48	
C-6P	Same with Pigtails		4	.86	
C-7	15, 20	P-16, P-25, RS-30	4	.55	
	25	P-20, P-30			

### TYPE RA

C-31	2-3-5	224, 225	2 pr.	1.17 pr.
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### TYPE BR

C-17	$\frac{1}{8}$ to $\frac{1}{2}$	BR-6, BR-7	2 pr.	.24 pr.
C-18	$\frac{1}{4}$ , $\frac{1}{2}$ , $\frac{1}{2}$	BR-10, BR-12	2 pr.	.31 pr.
C-2B	$\frac{1}{2}$ , 1, 2	RM10C, RM10E	4	.18

### TYPE DM & DN DIRECT CURRENT

C-20	$\frac{1}{8}$ , $\frac{1}{4}$ , $\frac{1}{2}$ , $\frac{3}{4}$ , 1	DMF-DM6 DM7L, DM8, DN10D, DN10C	4	.51
C-35	3	DM225	4	.51
C-36	2, 2 $\frac{1}{2}$ , 3	DN284	4	.52

### DAY FAN

DF-1	$\frac{1}{8}$ , $\frac{1}{4}$ $\frac{1}{4}$ , $\frac{1}{2}$ $1\frac{1}{2}$	RA, 141, 145, 187 209, 233, 234, 285 134, 180, 204, 210, 372, 424, 447, BL-449, RA-294, RA-848, RC-848, 181, 177, 197, 211, 236, 436, 439, 477	2 pr.	.22 pr.
DF-4	$\frac{1}{2}$ , $\frac{3}{4}$ 1	RC-56, 132 223	2 pr.	.32 pr.

### DELCO - FRIGIDAIRE

DP-1	$\frac{1}{8}$ , $\frac{1}{4}$	4093, 4300, 5000, 5620	2 pr.	.24 pr.
DP-2	$\frac{1}{8}$ , $\frac{1}{4}$ , $\frac{1}{2}$	3140, 3145, 3150	2 pr.	.24 pr.
DP-4	$\frac{1}{8}$ , $1/10$	4005	2	.31
DR-1	$\frac{1}{4}$ , $\frac{1}{2}$		2 pr.	.24 pr.
DR-2	$\frac{1}{4}$ , $\frac{1}{2}$ $\frac{1}{2}$	3101, 3102, 3103 3104, 3105, 3305	2 pr.	.40 pr.
DR-3	$\frac{1}{8}$ , $\frac{1}{4}$ $\frac{1}{2}$	3105, 3115 3800, 3810	2 pr.	.38 pr.
DR-4	$1, 1\frac{1}{2}$ , 2	3111, 3134, 3191, 3192 3218, 3246, 3780	2 pr.	.83 pr.
DR-5	$\frac{1}{8}$ , $\frac{1}{4}$ $\frac{1}{2}$ , $\frac{1}{2}$	3565	2 pr.	.50 pr.

### DIRECT CURRENT

DP-3	$\frac{1}{4}$	3424	4	.34
DP-4	$\frac{1}{8}$	5757	4	.31
DP-5	$\frac{1}{4}$ , $\frac{1}{2}$	3101, 3102, 3103, 3104 3168, 3404	2	.42
DP-6	$1, 1\frac{1}{2}$	3180, 3181, 3186	2	.31
DP-7	$\frac{1}{4}$	250, 324, 3116, 3156	4	.21



# GENERAL ELECTRIC TYPE BA

G-65	1/200	35-B	2	\$0.18
G-67	1/100	45-A	2	.20
G-69	1/50	50-A	2	.18
G-71	1/25	65-A	2	.11
G-72	1/15	75-A	2	.21

## TYPE BC

G-60	1/30, 1/20,	24, 28, 36	2	.19
	$\frac{1}{8}$	38		
G-61	$\frac{1}{4}$	46	2	.20
G-62	$\frac{1}{2}$	66	2	.23
G-68	$\frac{3}{4}$ , 1	74, 76	2	.08

## TYPE BD AND RC

G-86	$\frac{1}{4}$ to 1	BD-23, BD-25 BD-27, BD-33, BD-34, BD-35	2	.55
G-97	$\frac{1}{2}$	RC-21A	4	.08
G-100	$\frac{1}{4}$ , $\frac{1}{2}$	23, 25	2	.53
	1	27		
G-102	1, 2, 3	43, 45, 47	4	.57

## TYPE BSR AND SCH

G-35	$\frac{3}{4}$	SCH-202	2 pr.	.40 pr.
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## TYPE BSS

G-7	$\frac{1}{2}$	526	4	.30
G-8	$\frac{1}{4}$	504	4	.18
G-9	1	546	6	.32
G-10	2, 3	564, 570	12	.29
G-11	5	592	16	.27
G-12	5	614	16	.68

## TYPE KSA

G-80W	1/12, $\frac{1}{4}$	35, 37, 45, 47	2	.095
G-82	1/30, 1/20	23, 27	2	.18

## TYPE R1 FORM A

G-1	$\frac{1}{4}$ , $\frac{1}{2}$ , 1		4	.30
G-2	2		6	.56
	3		8	
	5		12	

## FORM C

G-1	$\frac{1}{2}$ , $\frac{3}{4}$	526, 530	4	.30
	2, 3	564, 570, 592	12	
G-5	$\frac{1}{4}$	504	4	.18
G-6	1, $\frac{1}{2}$	546, 549	6	.28
G-7	1	828	6	.30

## FORM G

G-3	$\frac{1}{4}$ , $\frac{1}{2}$	521, 526, 531	4	.27
	$\frac{3}{4}$ , 1	546		
	1 $\frac{1}{2}$ , 2	549, 564	6	
	3, 5	584, 606	12	
G-4	5	606	12	.36

## TYPE RSA

G-14	$\frac{1}{8}$	435	2	.21
G-15	$\frac{1}{4}$	445	2	.19
G-16	$\frac{1}{2}$	455	2	.20
G-17	$\frac{1}{2}$	256	2	.22
G-18	$\frac{1}{4}$ , $\frac{3}{4}$	244, 465, 469	2	.27
G-20	$\frac{1}{8}$ , $\frac{1}{6}$	35, 1435, 37, 1437	2	.18
G-22	$\frac{1}{4}$ , $\frac{1}{8}$	45, 1445, 1447, 47	2	.21
G-23	$\frac{1}{4}$ , $\frac{3}{4}$	1450, 2450, DA	2 pr.	.17 pr.
G-24S	$\frac{1}{6}$ , $\frac{1}{4}$	2450	2	.19
G-25	$\frac{1}{8}$ , $\frac{1}{2}$	53, 65, 1445, 1455	2	.21
G-27	$\frac{1}{2}$ , $\frac{3}{4}$	1465, 75, 1465, 1469	2	.23
G-29	$\frac{1}{6}$ , $\frac{1}{4}$	1450, 2450	2 pr.	.31 pr.
G-33	$\frac{3}{4}$	1455, 1469, 2450	2	.23
G-62	$\frac{1}{2}$	1256	2	.23

## TYPE SA

G-30W	1/20 to $\frac{1}{4}$	135, 1135, 137, 1137, 145, 147	2	.095
G-32	1/30	1123	2	.18

## TYPE SCR

G-11	$\frac{1}{4}$	R803	4	.27
G-35	$\frac{3}{4}$ , 1	114, 202, 116, 204	2 pr.	.40 pr.
G-36	1 $\frac{1}{2}$ , 2	124, 224, 126, A-225	2 pr.	1.10 pr.
G-37	$\frac{1}{4}$	803	4	.17
G-38	$\frac{1}{2}$ , $\frac{3}{4}$	806, 812	4	.20
G-39	1	816	4	.26
G-40	$\frac{1}{4}$ , $\frac{1}{2}$	803, 806	2	.51
	$\frac{3}{4}$ , 1	812, 816	4	
	1 $\frac{1}{2}$ , 2	823, 827	4	

G-41	3	836	4	.53
G-42	3	132, 836	4	.53
	5	845	8	
G-43	7 1/2, 10	853, 856	8	.55
G-75	1/2	106	2 pr.	.30 pr.
G-80	5	126, 254	4	.55
G-82	3	236	2	.73
G-84	3	225	2 pr.	.96 pr
G-99	1/5	803, 805	4	.31

## TYPE 5D—DIRECT CURRENT

G-60	1/10, 1/6	234, 236, 1236	2	.19
	1/6	1238		
G-61	1/6, 1/4	244, 1246, 246	2	.20
G-62	1/2	256, 1256, 1236	2	.28
G-63	3/4	264, 266, 1264, 1266	2	.31

## LELAND

L-1	1/8, 1/6	23-A, 25-A, 27-A	2	.18
	1/2	35-A		
L-2	1/8, 1/2	43-A, 47-A, 45-A	2	.21
L-3	1	55-A	2	.22
L-4	1/2	26-B, 45-A, 43-O, 47-O	2	.20
L-7	1/12, 1/6	22, 22-A	2	.17
	3	200		
L-9	1/4	26-A	2	.25
L-10	1 1/2, 8	61-A, 63-A	2	.56
L-11	8	52-A	2	.33
L-13	1/8, 1/2	53-A	2	.09
L-15	1/4, 1/8	35-AVX, 33-A	2	.19
	1/2	35, 35-CVX, 37		

## MASTER

MA-2	1/8, 1/6, 1/4	5815, 5817, 5822	2 pr.	.27 pr.
	1/8	5827		
MA-8	3/4, 1, 1 1/2	7427, 7430, 9230	2 pr.	.36 pr.
	2	9230		
MA-4	1 1/2	7430	2	.25
MA-5	3, 5	11230, 11124	4	.67

WAGNER  
TYPE BA

WA-1	1/12, 1/6, 1/8, 1/4	6, 7, 729, 8	2 pr.	.32 pr.
	1/8, 1/2			
WA-2	1/8, 1/2, 3/4	8, SW-5, 9	2 pr.	.32 pr.
	1, 1 1/2, 2	828, 9-WL-5		
WA-3	3/4, 1, 1 1/2	11	4	.32
	2, 8			
WA-4	1 1/2, 2, 8	14	4	.72
	5, 7 1/2			
WA-5	3, 5, 7 1/2	17	4	.99
	10, 15			
WA-6	10, 15	19, 22	4	1.15

## TYPE RA

WA-1	1/8, 1/2	8, 66X, 66-Y, 76X	2 pr.	.32 pr.
WA-4	7 1/2	13-V	4	.72
WA-7	1/8, 3/4, 1	7, 86, 8, 66X, 76, 204	2 pr.	.32 pr.
WA-8	1 1/2, 2	9	4	.32
WA-9	2, 5	10, 11	4	.74
WA-10	5, 10, 15	15	4	.84
WA-16	1/10, 1/6	75-XL, 57, 57X 58B-7, 58Y, 58V	2 pr.	.98 pr.
WA-19	1 1/2, 2, 3	224, 225	2 pr.	1.03 pr.
WA-20	5	254	2 pr.	1.22 pr.
WA-32	1	204	2 pr.	.32 pr.

## TYPE KA

WA-1	1/8, 1/4, 1/6, 1/2, 3/4	58W6, 66-X, 65-Y	2 pr.	.32 pr.
		75V24, 75W30		
WA-7	1	76, 204	2 pr.	.32 pr.
WA-14	1/4, 1/6	57, 57-X	2 pr.	.32 pr.
WA-17	1	204-Z	2 pr.	1.02 pr.

## DIRECT CURRENT

WA-7	1	204	2 pr.	.32 pr.
WA-23	1/8, 1/4	57-RD, 58-RD	2	.23
WA-24	1/4, 1/8	66-RD	2	.58
WA-25	1/2, 3/4, 1	75-RD, 76-RD, 5-XRD	2	.64
		776-XLRD		
WA-26	1/4, 1/2	7-BD	2	.12
WA-27	1/4, 1/4, 1/8	6-BD, 7-BD	2	.09
WA-28	1/2, 1	8-BD	2	.16

WESTINGHOUSE  
TYPE AR

WH-1	3/4, 1	165, 167	6	.18
WH-2	1/2, 3/4, 1	065, 165, 167	2	.18
WH-3	3/4, 1, 1 1/2	143, 145, 147	4	.22
WH-4	3/4, 3, 5, 7 1/2	284-C, 254-C, 352-C	4	.54
WH-5	2, 3	326, 330	4	.29
WH-7	5	460	4	.37
WH-8	7 1/2, 10	540, 555, 565-B	4	.60



WH-13	$\frac{1}{4}$	35-B	4	.16
WH-14	$\frac{1}{2}$	56-B, 56-C, 558	4	.18
WH-15	3	93-B, 95-A, 95-B, 95-C, 96-B, 933	4	.26
WH-16	$\frac{1}{8}$ , $\frac{1}{4}$ , $\frac{1}{2}$	35-RA, 35-RB, 37-RB	2	.19
WH-17	$\frac{1}{8}$ , $\frac{1}{4}$ , $\frac{1}{2}$	42-RB, 45-RB	2	.21
<b>TYPE ARS</b>				
WH-10	$\frac{1}{8}$ , $\frac{1}{2}$	25-B	4	.14
WH-12	$\frac{1}{4}$	35-B, 36-B	4	.17
WH-13	$\frac{1}{4}$	35-B, 37-B	4	.16
WH-14	$\frac{1}{4}$ , $\frac{1}{3}$ , $\frac{1}{2}$	55-B, 625, 55-C	4	.18
WH-15	$\frac{3}{4}$ , 1	57-B, 75-C 77-A, 77-B	4	.26
	$\frac{1}{2}$ , 1	75-B, 75-C		

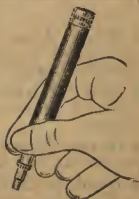
## BRUSH DIMENSIONS

C-1	$\frac{1}{8}$ x $\frac{5}{8}$ x $\frac{7}{8}$ x $\frac{1}{8}$	G-63	1	x	$\frac{1}{2}$ x $\frac{1}{2}$
C-2	$\frac{1}{8}$ x $\frac{3}{4}$ x $\frac{1}{8}$ x $\frac{1}{8}$	G-65	$\frac{7}{8}$ x $\frac{5}{8}$ x $\frac{3}{8}$ x $\frac{3}{8}$		
C-3	$\frac{1}{8}$ x 1 x $\frac{1}{4}$ x $\frac{3}{8}$	G-67	$\frac{1}{8}$ x $\frac{3}{8}$ x $\frac{3}{8}$ x $\frac{1}{4}$		
C-4	$\frac{1}{8}$ x 1 x $\frac{1}{4}$ x $\frac{3}{8}$	G-69	$\frac{3}{4}$ x $\frac{1}{4}$ x $\frac{1}{4}$ x $\frac{1}{4}$		
C-5	$\frac{2}{8}$ x 1 x $\frac{1}{2}$ x $\frac{3}{8}$	G-71	1 x $\frac{3}{8}$ x $\frac{3}{8}$ x $\frac{1}{4}$		
C-6	$\frac{2}{8}$ x 2 x $\frac{3}{8}$ x $\frac{3}{8}$	G-72	1 x $\frac{1}{8}$ x $\frac{7}{8}$ x $\frac{1}{4}$		
C-7	$\frac{2}{8}$ x 2 x $\frac{1}{8}$ x $\frac{3}{8}$	G-75	1 x $\frac{1}{8}$ x $\frac{3}{8}$ x $\frac{1}{8}$		
C-17	$\frac{7}{8}$ x $\frac{1}{2}$ x $\frac{1}{4}$	G-80	$\frac{1}{8}$ x 1 x $\frac{1}{4}$ x $\frac{3}{8}$		
C-18	$\frac{7}{8}$ x $\frac{5}{8}$ x $\frac{3}{8}$ x $\frac{3}{8}$	G-82	$\frac{1}{2}$ x 1 x $\frac{1}{4}$ x $\frac{3}{8}$		
C-20	1 x $\frac{3}{4}$ x $\frac{3}{8}$ x $\frac{3}{8}$	G-84	$\frac{1}{8}$ x 1 x $\frac{1}{4}$ x $\frac{3}{8}$		
C-28	$\frac{1}{8}$ x 1 x $\frac{1}{4}$ x $\frac{1}{2}$ x $\frac{1}{4}$	G-86	$\frac{1}{8}$ x 1 x $\frac{1}{4}$ x $\frac{3}{8}$		
C-31	$\frac{1}{8}$ x 1 x $\frac{1}{4}$ x $\frac{1}{2}$ x $\frac{1}{4}$	G-97	1 x $\frac{3}{8}$ x $\frac{3}{8}$ x $\frac{1}{4}$		
C-35	$\frac{1}{8}$ x $\frac{3}{4}$ x $\frac{3}{8}$ x $\frac{3}{8}$	G-99	1 x $\frac{3}{4}$ x $\frac{3}{4}$ x $\frac{1}{4}$		
C-36	$\frac{1}{2}$ x 1 x $\frac{3}{8}$ x $\frac{3}{8}$	G-100	$\frac{1}{8}$ x $\frac{3}{4}$ x $\frac{3}{8}$ x $\frac{3}{8}$		
DF-1	$\frac{7}{8}$ x $\frac{1}{2}$ x $\frac{1}{8}$	G-102	$\frac{1}{8}$ x 1 x $\frac{1}{4}$ x $\frac{3}{8}$		
DF-4	$\frac{7}{8}$ x $\frac{1}{2}$ x $\frac{1}{4}$	L-1	$\frac{3}{4}$ x $\frac{1}{2}$ x $\frac{1}{2}$ x $\frac{3}{8}$		
DP-1	$\frac{3}{4}$ x $\frac{1}{8}$ x $\frac{1}{8}$ x .130	L-2	$\frac{7}{8}$ x $\frac{5}{8}$ x $\frac{1}{4}$ x $\frac{1}{4}$		
DP-2	$\frac{3}{4}$ x $\frac{3}{4}$ x .223 x .130	L-3	1 x $\frac{5}{8}$ x $\frac{1}{4}$ x $\frac{1}{4}$		
DP-3	$\frac{1}{8}$ x $\frac{1}{2}$ x $\frac{1}{4}$	L-4	$\frac{3}{4}$ x $\frac{1}{2}$ x $\frac{1}{4}$ x $\frac{1}{4}$		
DP-4	$\frac{1}{8}$ x $\frac{1}{2}$ x $\frac{1}{8}$	L-7	$\frac{3}{4}$ x $\frac{3}{8}$ x $\frac{1}{8}$ x $\frac{1}{8}$		
DP-5	$\frac{1}{8}$ x $\frac{1}{8}$ x $\frac{1}{8}$ x $\frac{1}{8}$	L-9	$\frac{3}{4}$ x $\frac{1}{2}$ x $\frac{1}{8}$ x $\frac{1}{8}$		
DP-6	$\frac{1}{8}$ x 1 x $\frac{3}{8}$ x $\frac{3}{8}$	L-10	1 x $\frac{7}{8}$ x $\frac{1}{8}$ x $\frac{1}{8}$		
DP-7	$\frac{1}{8}$ x $\frac{1}{2}$ x $\frac{1}{8}$ x $\frac{1}{8}$	L-11	1 x $\frac{1}{8}$ x $\frac{1}{8}$ x $\frac{1}{8}$		
DR-1	$\frac{1}{8}$ x $\frac{3}{4}$ x $\frac{3}{8}$ x $\frac{3}{8}$	L-13	$\frac{5}{8}$ x $\frac{1}{2}$ x $\frac{1}{4}$ x $\frac{1}{4}$		
DR-2	$\frac{1}{8}$ x $\frac{1}{8}$ x $\frac{1}{8}$ x $\frac{1}{8}$	L-15	$\frac{1}{8}$ x $\frac{1}{8}$ x $\frac{1}{8}$ x $\frac{1}{8}$		
DR-3	$\frac{1}{8}$ x $\frac{1}{8}$ x $\frac{1}{8}$ x $\frac{1}{8}$	MA-2	$\frac{1}{8}$ x $\frac{1}{2}$ x $\frac{1}{4}$ x $\frac{1}{4}$		
DR-4	$\frac{1}{8}$ x 1 x $\frac{1}{8}$ x $\frac{1}{4}$	MA-3	$\frac{1}{4}$ x $\frac{5}{8}$ x $\frac{1}{4}$ x $\frac{1}{4}$		
DR-5	$\frac{1}{8}$ x $\frac{1}{8}$ x $\frac{1}{8}$ x $\frac{3}{8}$	MA-4	$\frac{1}{4}$ x $\frac{5}{8}$ x $\frac{1}{4}$ x $\frac{1}{4}$		
G-1	$\frac{1}{8}$ x $\frac{3}{4}$ x $\frac{1}{8}$ x $\frac{1}{8}$	MA-5	2 x 1 x $\frac{1}{8}$ x $\frac{1}{8}$		
G-2	$\frac{1}{8}$ x $\frac{3}{4}$ x $\frac{1}{8}$ x $\frac{1}{8}$	WA-1	$\frac{3}{4}$ x $\frac{3}{4}$ x $\frac{3}{8}$ x $\frac{1}{8}$		
G-3	$\frac{1}{8}$ x $\frac{3}{4}$ x $\frac{1}{8}$ x $\frac{1}{8}$	WA-2	$\frac{1}{4}$ x 1 x $\frac{1}{4}$ x $\frac{1}{4}$		
G-4	$\frac{1}{8}$ x $\frac{3}{4}$ x $\frac{1}{8}$ x $\frac{1}{8}$	WA-3	$\frac{1}{8}$ x 1 x $\frac{1}{2}$ x $\frac{1}{4}$		
G-5	1 x $\frac{1}{2}$ x $\frac{1}{8}$ x $\frac{1}{8}$	WA-4	$\frac{2}{8}$ x 1 x $\frac{3}{4}$ x $\frac{1}{4}$		
G-6	$\frac{1}{4}$ x $\frac{5}{8}$ x $\frac{1}{8}$ x $\frac{1}{8}$	WA-5	$\frac{2}{8}$ x 2 x $\frac{5}{8}$ x $\frac{1}{4}$		
G-7	$\frac{1}{4}$ x $\frac{3}{4}$ x $\frac{1}{8}$ x $\frac{1}{8}$	WA-6	8 x 2 x $\frac{3}{4}$ x $\frac{3}{8}$		
G-8	$\frac{1}{8}$ x $\frac{1}{2}$ x $\frac{1}{8}$ x $\frac{1}{8}$	WA-7	1 x 1 x $\frac{1}{4}$ x $\frac{1}{8}$		
G-9	$\frac{1}{8}$ x $\frac{3}{8}$ x $\frac{1}{8}$ x $\frac{1}{8}$	WA-8	$\frac{1}{4}$ x 1 x $\frac{3}{8}$ x .305 x		
G-10	$\frac{1}{8}$ x $\frac{3}{8}$ x $\frac{1}{8}$ x $\frac{1}{8}$	WA-9	$\frac{1}{8}$ x 1 x $\frac{1}{8}$ x $\frac{3}{8}$		
G-11	$\frac{1}{8}$ x $\frac{3}{4}$ x $\frac{1}{4}$ x $\frac{1}{4}$	WA-10	$\frac{2}{4}$ x 2 x $\frac{1}{4}$ x $\frac{1}{4}$		
G-12	$\frac{1}{8}$ x 1 x $\frac{1}{8}$ x $\frac{1}{8}$	WA-14	$\frac{3}{4}$ x $\frac{1}{8}$ x $\frac{3}{8}$ x $\frac{1}{8}$		
G-14	$\frac{1}{8}$ x $\frac{1}{4}$ x $\frac{1}{4}$ x $\frac{1}{4}$	WA-16	$\frac{3}{4}$ x $\frac{3}{4}$ x $\frac{1}{8}$ x $\frac{1}{4}$		
G-15	$\frac{3}{4}$ x $\frac{5}{8}$ x $\frac{1}{8}$ x $\frac{1}{8}$	WA-17	$\frac{1}{8}$ x 1 x $\frac{1}{4}$ x $\frac{1}{8}$		
G-16	$\frac{1}{8}$ x $\frac{1}{8}$ x $\frac{1}{8}$ x $\frac{1}{8}$	WA-19	$\frac{1}{8}$ x 1 x $\frac{1}{4}$ x $\frac{3}{8}$		
G-17	$\frac{1}{8}$ x $\frac{3}{8}$ x $\frac{3}{8}$ x $\frac{3}{8}$	WA-20	$\frac{1}{8}$ x 1 x $\frac{1}{8}$ x $\frac{1}{8}$		
G-18	$\frac{3}{4}$ x $\frac{1}{2}$ x $\frac{3}{8}$ x $\frac{3}{8}$	WA-23	$\frac{7}{8}$ x $\frac{1}{2}$ x $\frac{3}{8}$ x $\frac{3}{8}$		
G-20	$\frac{3}{4}$ x $\frac{1}{4}$ x $\frac{1}{4}$ x $\frac{1}{4}$	WA-24	$\frac{7}{8}$ x $\frac{3}{4}$ x $\frac{3}{8}$ x $\frac{3}{8}$		
G-22	$\frac{7}{8}$ x $\frac{3}{8}$ x $\frac{1}{4}$ x $\frac{1}{4}$	WA-25	$\frac{1}{4}$ x 1 x $\frac{1}{4}$ x $\frac{1}{2}$		
G-23	$\frac{7}{8}$ x $\frac{3}{8}$ x $\frac{1}{8}$ x $\frac{1}{8}$	WA-26	$\frac{7}{8}$ x $\frac{3}{4}$ x $\frac{1}{8}$ x $\frac{1}{4}$		
G-24S	$\frac{1}{8}$ x $\frac{3}{8}$ x $\frac{3}{8}$ x $\frac{3}{8}$	WA-27	$\frac{3}{4}$ x $\frac{3}{4}$ x $\frac{1}{4}$ x $\frac{1}{4}$		
G-25	1 x $\frac{3}{8}$ x $\frac{1}{4}$ x $\frac{1}{4}$	WA-28	$\frac{1}{8}$ x 1 x $\frac{1}{4}$ x $\frac{1}{4}$		
G-27	1 x $\frac{1}{2}$ x $\frac{1}{4}$ x $\frac{1}{4}$	WA-32	1 x $\frac{5}{8}$ x $\frac{3}{8}$ x $\frac{3}{8}$		
G-29	$\frac{1}{8}$ x $\frac{1}{8}$ x $\frac{1}{8}$ x $\frac{1}{8}$	WH-1	$\frac{1}{8}$ x 1 x .186 x .103		
G-30W	$\frac{1}{8}$ x .308 diam.	WH-2	$\frac{7}{8}$ x $\frac{3}{4}$ x $\frac{1}{8}$ x $\frac{1}{8}$		
G-32	$\frac{3}{4}$ x $\frac{1}{4}$ x $\frac{3}{8}$ x $\frac{3}{8}$	WH-3	$\frac{1}{8}$ x 1 x .211 x .117		
G-35	$\frac{1}{8}$ x $\frac{1}{2}$ x $\frac{3}{8}$ x $\frac{3}{8}$	WH-4	$\frac{1}{2}$ x 1 x $\frac{1}{4}$ x $\frac{3}{8}$		
G-36	$\frac{1}{8}$ x $\frac{3}{8}$ x $\frac{3}{8}$ x $\frac{3}{8}$	WH-5	$\frac{1}{2}$ x 1 x $\frac{3}{8}$ x .179 x .097		
G-37	$\frac{1}{8}$ x $\frac{3}{8}$ x $\frac{3}{8}$ x $\frac{3}{8}$	WH-7	$\frac{1}{2}$ x 1 x $\frac{3}{8}$ x .344 x .188		
G-38	$\frac{1}{8}$ x $\frac{3}{8}$ x $\frac{3}{8}$ x $\frac{3}{8}$	WH-8	$\frac{2}{8}$ x 2 x $\frac{5}{8}$ x .277 x .126		
G-39	$\frac{1}{8}$ x $\frac{1}{2}$ x $\frac{3}{8}$ x $\frac{3}{8}$	WH-10	$\frac{3}{4}$ x $\frac{3}{8}$ x $\frac{1}{8}$ x $\frac{1}{8}$		
G-40	$\frac{1}{8}$ x $\frac{3}{8}$ x $\frac{3}{8}$ x $\frac{3}{8}$	WH-12	$\frac{7}{8}$ x $\frac{1}{2}$ x $\frac{1}{8}$ x $\frac{1}{8}$		
G-41	$\frac{1}{8}$ x 1 x $\frac{1}{8}$ x $\frac{1}{8}$	WH-13	$\frac{7}{8}$ x $\frac{1}{2}$ x $\frac{1}{8}$ x $\frac{1}{8}$		
G-42	$\frac{1}{8}$ x 1 x $\frac{3}{8}$ x $\frac{3}{8}$	WH-14	$\frac{7}{8}$ x $\frac{1}{2}$ x $\frac{1}{4}$ x $\frac{1}{4}$		
G-43	$\frac{1}{8}$ x 1 x $\frac{1}{8}$ x $\frac{1}{8}$	WH-15	1 x 1 x $\frac{1}{4}$ x $\frac{1}{4}$		
G-60	$\frac{1}{8}$ x $\frac{1}{4}$ x $\frac{1}{4}$ x $\frac{1}{4}$	WH-16	$\frac{7}{8}$ x $\frac{3}{4}$ x $\frac{1}{8}$ x $\frac{1}{8}$		
G-61	$\frac{1}{8}$ x $\frac{1}{8}$ x $\frac{1}{8}$ x $\frac{1}{8}$	WH-17	1 x $\frac{3}{8}$ x $\frac{3}{8}$ x $\frac{1}{4}$		
G-62	1 x $\frac{3}{8}$ x $\frac{3}{8}$ x $\frac{3}{8}$				

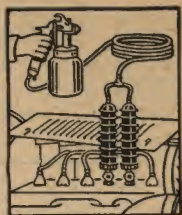
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## Marvel Auto Power Painter



● Wherever Electric Power is Not Available. This Marvel Auto Power Sprayer meets all requirements.

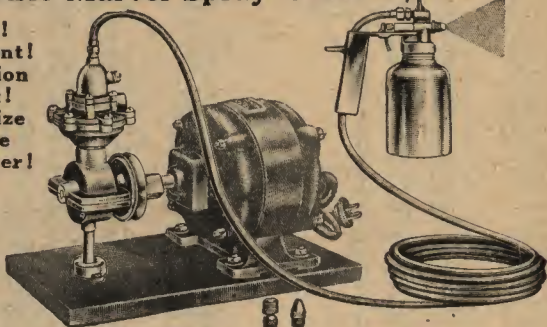
● Economical and Effective spraying outfit for all kinds of odd jobs faster than hand brushing and ideal for those hard-to-get-at places. Ideal for touching up farm implements, etc.

● Large Working Range. With 25 feet of high-test all-rubber air hose this outfit at one setting will paint or spray within a 50 foot circle. Works on same principle as No. 788.

No. 811—Marvel Auto-Power Outfit with Gun, one spark plug pump, set of three adapters and 25 feet of air hose. Complete **\$2.95** as shown. Ship. wt. 4 lbs. F.O.B. Factory.....  
(Extra hose lengths, 25 feet, 95c)

## Electric Marvel Spray Unit

**New!  
Different!  
Precision  
Built!  
Oversize  
Surge  
Chamber!**



● Specially Designed to meet the needs of the average farm, home, manual training school or small item production work in manufacturing.

● Superior Workmanship in every detail makes this outfit as having been designed and produced under the same rigid standards that are maintained in only the finest equipment.

● Fits LeJay Motors Nos. 706, 712, 732 and S36, CD12, C10 with special adapter No. 07A. Also fits standard motors with 1/2" diameter shaft. Recommended speed 1750 RPM.



● Oil Free Clean Air at all times only possible with a diaphragm compressor. No oiled surfaces ever come in contact with air at any time.

● Only Two Moving Parts, oversized bearings running in an oil bath of splash-feed oiling system like your automobile. Built to stand continuous daily operation under full working load.

● The Electric Marvel does first-class work with all ordinary paints, enamels, varnishes and other coatings. May be used for spraying insecticides, moth proofing or disinfectants. It will inflate truck or auto tires or may be used as a vacuum pump.

No. 407—Electric Marvel Spray Outfit complete as illustrated with mounting accessories, tire chuck, 10 ft. high-test all-rubber hose and Large Speedy Spray Gun. Motor not included. Ship **\$7.50** wt. 7 lbs. F.O.B. Factory.....  
(Extra hose lengths, 50 feet \$2.45)

## New Oil-less Spray Outfit

● New! More than ten years of practical experience in engineering, production and actual use of portable paint sprayers has been built into this new "Speedy" Spray Outfit.

● New Multiple-Type Long Life Diaphragm operating under full pressure renders more hours of actual service than the average automobile.

● Never Needs Oiling. Oversize Precision Ball Bearings grease packed at the factory never need oiling again.

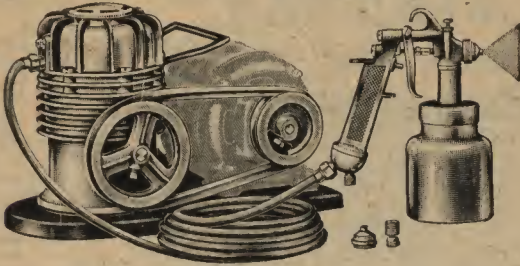
● Oversize Surge Chamber "built-in," eliminates all pulsation. A part of the compressor body without connections or piping to cause leakage or "off center" weight to set up vibrations.

● Clean Oil-Free Air. No oiled surface comes in contact with air at any time. No pistons! No cylinders! No rings! No oil-pumping or loss of compression from "slippage." Facts only possible with diaphragm compressors.



• **Delivers 2 Cubic Feet** of free air per minute at 30 to 40 lbs. pressure per sq. in. by test under continuous service. Equipped with intake air cleaner and relief valve.

• **Three Point Spring Mounting** on one-piece pressed steel base reduces vibration and eliminates "creeping." Positive "V" Belt drive and motor pulley bored to fit  $\frac{1}{2}$ " motor shaft.



This is a sturdy built-for-service outfit, popular with home owners, property managers, painters, finishers and small manufacturers. Four to six times faster than hand brushing. Handles paint, enamel, varnishes, lacquers, insecticides or disinfectants. May be used as a vacuum pump or for inflating tires. Will render practical efficient service with any gun (except No. 125) shown in this catalog. Operated by  $\frac{1}{4}$  H.P. 1750 R.P.M. electric motor.

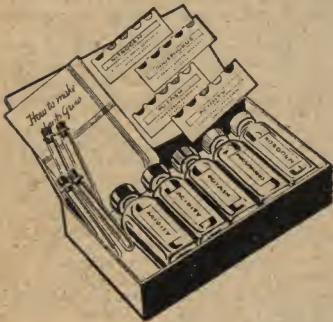
No. 892—Outfit complete as illustrated with "V" belt, motor pulley 15 ft. high-test air hose and gun, but without motor. Shipping wt., 22 lbs. F.O.B. .... \$18.00

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Solution for plants

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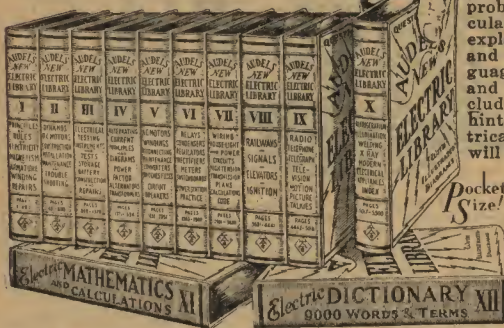
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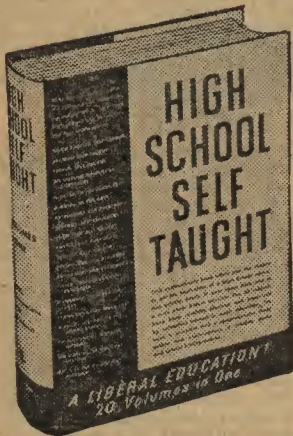
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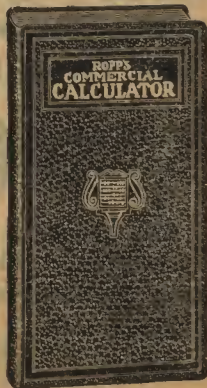
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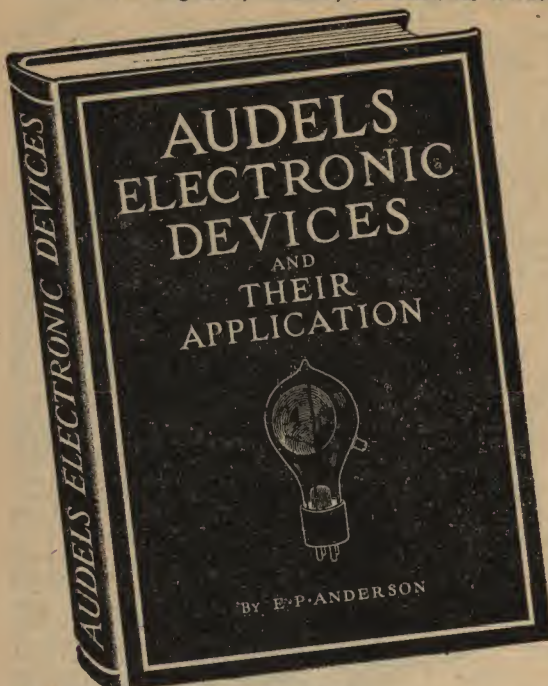
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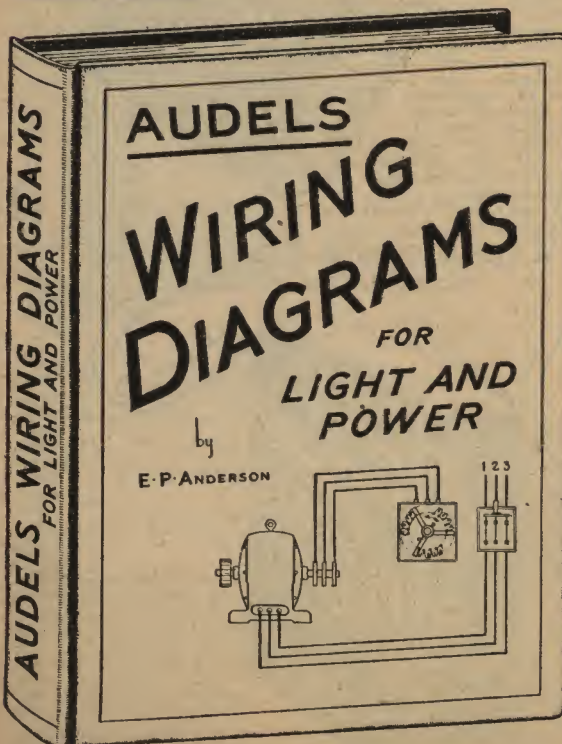


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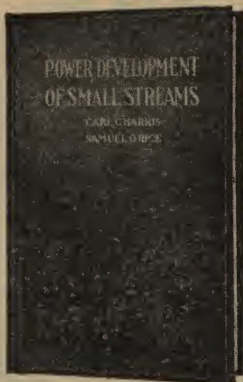
## Power Development of Small Streams

The purpose of this book is to furnish the layman a practical and working knowledge of the construction, installation, and operation of small water-power plants to furnish country homes, towns, and villages with electric light, power, heat, water supply, and fire protection. Accurate information, simple and easy to understand, with all confusing technicalities eliminated, this book places one of the world's greatest natural resources within the grasp of everyone.

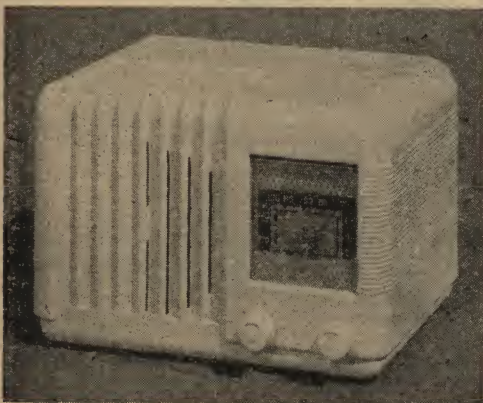
Detailed tables assist you in the necessary figuring, and diagrams and illustrations show you how to use the information you gain.

All types of water power equipment are explained, and there are chapters on Electricity, Dams, Concrete (and how to use it in water power development), Irrigation, Drainage, and an amazing amount of information on Water itself, its purification, filters, conservation and how to stock the home waters with Fish!

Postpaid .....\$2.90



## Troubador—Model 0541 110 Volt A.C. Radio



This beautiful and sensational 110 volt A.C. superheterodyne radio has all the best features found only in the highest priced receivers obtainable which gives you more actual radio value for your money. Artistically designed cabinet. New! Different!

7 Star Features Means Better Value by LeJay ★—Powerful A.C.-D.C. superheterodyne circuit. ★—Magnificent 5-tube radio that

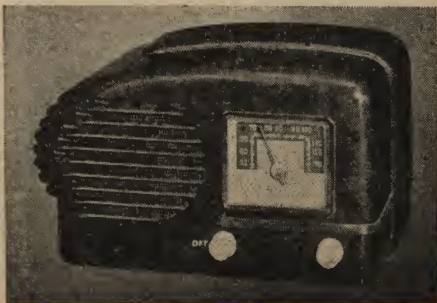
sets a new standard. ★—Beautiful aeroplane-type illuminated dial, vernier drive. ★—Tuning range: 535 to 1740 K.C. ★—No aerial or ground, efficient built in antenna. ★—5-inch super-service electrodynamic speaker guarantees superb performance. ★—Full automatic volume control. Ivory cabinet 9 1/2"x6 1/2"x6 1/2". No. 0541—Ship. wt. 7 1/2 pounds. You pay postage.....\$9.95

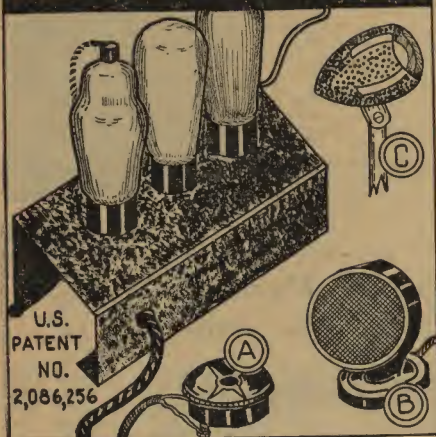
## Troubador—Model "Banner" 1.4 Volt Battery Farm Radio

Here is a battery-operated set that puts its "hat in the ring" as a claimant to top honors in every respect. A radio that's a joy to behold as well as a gem of mechanical perfection.

### 9 Star Features

★—Beautiful and sturdy plastic cabinet of striking modern design. ★4-tubes 1.4 volt battery operated superheterodyne. ★—Full automatic volume control. ★—Vernier dial, on and off indicator. ★—Heavy duty 5" P.M. dynamic speaker. ★—Low battery drain, extra sensitivity and selectivity. ★—Can be used with all standard battery packs or with separate A and B batteries. Size 12 1/2"x7 1/2"x7". No. Banner—Ship. wt. 8 1/2 pounds. You pay postage.....\$11.99



**NEW!****T WIRELESS  
TRANS-  
CASTER**

This wonderful new device has hundreds of practical applications. Broadcasts voice or music from any room or floor in home, office or store to any radio in same building **WITHOUT CONNECTING WIRES!** Works from any lighting socket, A.C. or D.C. Transmits your favorite recordings from electric phonograph through any radio **WITHOUT CONNECTIONS** between radio and phonograph. Transforms your radio into an efficient public address system. Acts as an inter-office communication system. Simplified Home Broadcasting. Great fun for parties, entertainments, etc. Ideal for auditions. If your neighbors' radio in same building annoys you, you can tell him so **THROUGH HIS RADIO.** Can be used as a radio nursemaid to warn you of trouble in nursery. No need to go upstairs. Merely tune your radio to a

predetermined point on dial and listen in. If baby is crying, you'll hear him clearly through the radio. Also permits use of radio as a detectaphone. Listen to secret conversations. Impossible to enumerate many other uses in this limited space.

**NOTICE:** The Wireless Transcaster employs a patented circuit. Beware of unlicensed imitations.

**GUARANTEE:** Fully guaranteed as to materials and workmanship and also against damage in transit.

**WARNING:** The DeLuxe Model Transcaster is extremely powerful and should not be used with an aerial, except in accordance with F.C.C. rules, as this would convert it from a Transcaster into a conventional Radio Transmitter capable of broadcasting your voice for great distances, limited only by antenna construction.

## Two-Tube Wireless Transcaster

### STANDARD MODEL

Uses separate rectifier tube and dual purpose 6A7 tube with audio modulated triode and a high-gain pentode oscillator. Supplies 25 DB. amplification permitting use of an earphone or small mag. speaker as microphone, or any high impedance magnetic or crystal pickup record player. Variable signal frequency control radiating a signal within tuning range of all makes of broadcast receivers **POWERFUL**, not to be confused with one-tube toy-type outfits. Priced amazingly low.

Ready to use with tubes (less mike)..... **\$3.95**  
Earphone mike ..... 95c

## Three-Tube Wireless Transcaster

### SENIOR MODEL

Uses separate rectifier tube, 37 mike amplifier and dual purpose 6A7 triode modulator and pentode oscillator. Extra amplification of 50 DB. provided. Can be used with all types of power mikes or any type pickup. Frequency range adjustable at any point on broadcast band between 500 and 800 kc. or on BC-Police Band between 1500 and 1750 kc.

Price (less tubes and mike) ready to use..... **\$4.50**  
Set of 3 tubes..... **\$1.95**

## Deluxe Model Transcaster-Transmitter

Powerful, high-gain device engineered so that it will transmit high fidelity music without connection wires to remote radio set. No sacrifice of quality or power. Uses separate rectifier tube, 6J7 screen grid mike amplifier, and dual purpose 6A7 modulator and oscillator. Same frequency range adjustment as Senior model, but greater DB amplification.

Price (less tubes and mike) ready to use..... **\$5.95**  
Set of 3 Tubes..... **\$2.45**

## Transcaster Accessories

High-fidelity Dynamic Microphone, 50 DB. (Fig. B)..... **\$2.45**  
\$25 List Wide Range Response Crystal Microphone (Fig. C).... **9.95**  
Accurately Balanced High Impedance Crystal Pickup..... **3.95**  
Electric Record Player, A.C. only..... **6.95**



# CISIN'S SENSATIONAL

New Magic Electronic Eye

## "TEST-ALL"

TUNING INDICATOR

**\$3.95**

Complete Kit of Parts, less tubes, with Crackle Finish Metal Cabinet, Aluminum Shield, Diagram and Detailed Instructions.

U. S. Ser. No.  
Pat. Pending  
592,586



### Newest Short Wave Accessory!

Tunes in those elusive S.W. and Foreign Stations. Tests power packs, audio distortion, antenna systems, locates opens, shorts, leakages. Lines up r.f. and i.f. stages. Measures battery, a.c. and d.c. voltages. Measures and compares resistances and capacities. Self-contained ac.-d.c. power supply.

### EASY TO BUILD — EASY TO USE

Set of 3 Matched Tubes..... **\$1.45**

### 30-PIECE FIND-ALL RADIO EXPERIMENTER'S KIT

**\$1**

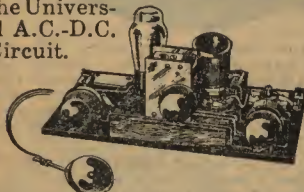
A Treasure Trove of Useful Radio Components! Best parts for scores of radio hook-ups. Ideal beginner's outfit. Educational. Will also save money for experienced radio fans. Illustration shows only a portion of kit, which includes Adjustable Trimmer Condenser, 5 four-prong sockets, 2 six-prong sockets, 1 lattice-wound Find-All Coil, 1 calibrated Dial, 3 assorted Fixed Condensers, 3 assorted Resistors, 1 Grid Leak, 1 Grid Condenser, 10 Connection Clips, roll hook-up wire, 2 easy-to-build picture wiring diagrams—one of electric set, one of battery set. (Value, if purchased separately, about \$5.00.) **FREE!** With every kit—a genuine RCA RADIOTRON TUBE!

Designed by  
H. G. Cisin,  
inventor of  
the Univers-  
al A.C.-D.C.  
Circuit.

### AIR-WAVE AIR SCOUT

Only Set of Its Kind In the World

This powerful little set brings in broadcast stations and also police calls, amateur calls, code and trans-Atlantic phone conversations. Powered by inexpensive batteries. Available in kit form. Used by thousands of boy scouts. Scout John Stott of Sanford, Me., heard in England, Germany, Holland and South America on this set.



Complete Kit with tube, earphone, two coils 190-550 meters—  
nothing else to buy except batteries..... **\$5.95**  
Complete Kit, same as above but less earphone..... **5.45**  
**ASSEMBLED, WIRED AND READY TO USE (less batteries). 6.45**  
Short Wave Coil Kit—4 coils 10 to 200 meters..... **1.00**

### Metal Tube All Electric Air Scout

Similar in appearance to above battery model, but works from any A.C. or D.C. house lighting source. Covers broadcast and short wave bands and also long wave band. Complete Assembled Kit with instructions and picture diagram, and all four short wave coils, ready to wire..... **\$4.95**  
Set of Matched Metal Tubes..... **2.50**  
Broadcast Coils (two)..... **1.45**  
Special Long Wave Unit with Coil..... **1.00**  
Single Earphone..... **.95**  
Above Kit, wired and ready to use with all tubes, coils, and earphone..... **9.95**



### Adapt Your Battery Radio to 110 Volt High-line Operation

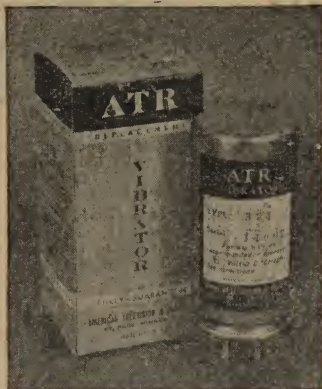
Changes 3 Volt, 25 Volt, 2 Volt or 1½ Volt Radios for 110 Volts A.C. These new Porta-Power Units will operate regular home or portable type battery radios efficiently and economically direct from a 110 volt outlet. No further battery trouble in your home radio. No need to store your portable away for the winter. A Porta-Power (easily installed in your portable) will give

you an extra radio about your home. The Porta-Power can be installed in many battery portables without removing the batteries, thereby giving you all the advantages of both types of operation. Operates at peak efficiency at all times. Average cost to operate is less than 5c per 100 hours.

For 110-120 volt, 50-60 cycles. Same as rural electrification service.  
Porta-Power for 1½ volt radios, F.O.B..... **\$7.50**  
Porta-Power for 2, 2½ or 3 volt radios, F.O.B..... **9.95**  
Specify voltage of your radio when ordering.

## SPECIAL ANNOUNCEMENT

### WE ARE NOW ABLE TO SUPPLY A.T.R. REPLACEMENT VIBRATORS



for practically all standard vibrator operated radio receivers, including automotive, aviation, police and household sets. These replacement vibrators are produced by the American Television and Radio Co., recognized to be the world's leader in this field. Rigid inspection and engineering tests, and fine materials and workmanship assure you of the finest results obtainable. Every A.T.R. Replacement Vibrator for Standard Vibrator operated receivers is guaranteed for one year of service in normal pleasure use and will be replaced on a service adjustment basis for any failure due to imperfection of materials or workmanship.

Send us the maker's name and the model number of your set and we will be glad to recommend the proper Replacement Vibrator and its price to you. If your radio is

an automobile type, send also the name and year model of your car.  
ATR—Prices begin at.....\$2.75

### PACKARD LEKTRO-SHAVER

10 Day Free Trial

This Shaver formerly sold for \$15.00 but now is offered to LeJay customers for half price. Never again do you have to think of, buy or use blades, brushes, soaps or creams. No matter how



tender your skin or how heavy your beard, never again will you scrape, nick or cut your face, nor have ingrown hairs. Besides the saving of money Packard gives you a real shave and permanent face comfort. These Shavers can be purchased in 6, 32 or 110 volts. The 6 volt model for farmers having 6 volt wind plants—tourists using car battery for power. The 32 volt model for those having a 32 volt plant and 110 volt for both city and country use.

No. P6—Packard Lektro-Shaver for use on 6 volt battery.....\$4.95

A 6-volt hot-shot battery lasts from 6 months to a year.

No. P32—Packard Lektro-Shaver for 32 volt systems..... 4.95

No. P110—Packard Lektro-Shaver for 110 volts A.C. or D.C.... 4.95

Shipping weight 3 lbs. You pay postage.

## ELECTRIC DRY SHAVER



Here's what you've been looking for! In response to several requests from our customers, we have answered with this new Electric Dry Shaver which may be used with a 6 volt battery or 110 volts A.C. or D.C. Exclusive with LeJay: This Shaver saves you time, worry, and expense. No more blades, brushes, lather, soap or hot water worries. Double shaving edge assures double life and double efficiency. LeJay Electric Dry Shaver really removes beard at the base leaving a smooth skin free from cuts or bruises. Equipped with ever-sharp blade which is self-sharpening and requires no replacements. We are so confident that this shaver will sell itself that we offer it on a ten day trial period at the end of which time you may return it if not entirely satisfied. Be sure to specify voltage desired when ordering.

No. L110—110 Volt A.C. or D.C. \$3.75

L210—110 Volt A.C. (will not work on D.C.) Shaver. \$0.93

Ship. wt. 2 lbs.....

I purchased your Manual some time ago and must say it  
is fine. I have had many dollars worth of enjoyment from it.

M. C. L. Scandia, Kan.



## Rapid Electroplating Process

### Electroplating with a Brush

There is nothing new about electroplating. Heretofore, it has been an exact and complicated process usually performed in a plant set up for the purpose and under skilled supervision. Briefly, the method followed in these plants involves polishing to the desired finish and a succession of baths to make the article chemically clean. It is then immersed in a specially prepared liquid containing a solution of the metal to be deposited (the electrolyte) and electric current is passed through this solution for a definite period of time, resulting in a deposit of metal on the article in the degree desired.

The RAPID ELECTROPLATING PROCESS is not designed to



replace this commercial method of electroplating but rather to supplement it by enabling the home or shop user without previous experience, to electroplate in a simple manner, individual articles or worn spots on various objects; or the industrial user to electroplate specific areas without the necessity of having the entire object plated.

With the RAPID ELECTROPLATING PROCESS, hand prepared surfaces can be plated with good results. The plating compound is of a jelly-like consistency and contains the metal to be deposited, in a highly concentrated form. This compound adheres to the surface being plated without spilling or running, and the plating is done with a specially designed

brush, through which the electric current passes. Objects of all sizes and description, even in overhead positions, may therefore be plated without dismantling or loss of time from service.

**No. 105—Nickel Plating Outfit** consisting of 1 jar Nickel plating compound, 1 jar metal polish, emery polishing paper, plating brush, necessary wires and battery clips and complete instructions. Ship. wt. 1 lb. F.O.B.....\$1.75

**No. 106—Silver Plating Outfit** consisting of 1 jar cleaning compound, 1 jar Silver plating compound, 1 jar polish compound, cleaning brush, plating brush, necessary wires and battery clips and complete instructions. Ship. wt. 2 lbs. F.O.B.....\$2.95

**No. 107—Gold Plating Outfit** consisting of 1 jar cleaning compound, 1 jar Gold plating compound, 1 jar polish compound, cleaning brush, plating brush, necessary wires and battery clips and complete instructions. Ship. wt. 2 lbs. F.O.B.....\$6.75

### ADDITIONAL COMPOUNDS AND PARTS

L405—Nickel Compound. Ship. wt. 4 ounces. F.O.B.....\$0.50  
 L406—Silver Compound including cleaner. 6 ounces. F.O.B.... 1.75  
 L407—Gold Compound (24k). Ship. wt. 4 ounces. F.O.B..... 5.00  
 L555—Rapid Plating Brush, ½" postpaid..... .50  
 L557—Rapid Metal Polish. Ship. wt. 4 ounces. F.O.B..... .10

# LEJAY MANUFACTURING CO.

# LeJay Electric Outboard Motor

In Kit Form  
Assemble Your Own —  
Save the Difference

The information given in Plan 20 of LeJay Manual shows in detail how to rewind a "T" generator into a motor suitable for this kit. After completing the motor it will be necessary to drill a  $\frac{1}{8}$ " hole A1 Fig. 1 into end of armature shaft A to a depth of  $\frac{3}{4}$ ". The  $\frac{3}{8}$ " drive shaft D Fig. 1 will then fit into hole A1 loosely and held in place by pin P1 or rivet which is inserted through armature gear pin hole A2 and shaft hole D1 thus making a perfect semi-universal coupling. Fig. 2 shows how lower end of drive shaft fits into upper coupling of flexible shaft assembly No. 121.

## Parts List

B—Battery clips. Included with Y and Z.

C1—Main clamp casting (Aluminum). Ship. wt. 8 oz. F.O.B. \$1.50

C2—Tube clamp casting (Aluminum). Ship. wt. 6 oz. F.O.B. \$1.40

C3—Clamp screw assembly (Cadmium plated). Postpaid. \$0.40

C4— $\frac{1}{8}$ "x2  $\frac{1}{2}$ " bolt and nut (Cadmium plated). Postpaid. \$0.12

C5— $\frac{1}{4}$ "x2  $\frac{5}{8}$ " cadmium plated rod bent  $\frac{3}{4}$ " from end at right angles with hole and cotter pin in other end. Postpaid. \$0.12

C6— $\frac{1}{4}$ "x $\frac{1}{2}$ " cadmium plated thumb screw. Postpaid. \$0.10

D—Brass drive shaft 13"x $\frac{3}{8}$ ". Pin hole D1 drilled with  $\frac{1}{8}$ " drill  $\frac{1}{8}$ " from end. Pin hole D2 drilled with  $\frac{1}{8}$ " drill  $\frac{1}{8}$ " from end so pin P2, which is  $\frac{1}{8}$ " rod  $\frac{3}{4}$ " long, will fit snug. Rod complete. Postpaid. \$0.60

G—Rubber grip. Postpaid. \$0.20

H—Brass housing 1" O. D.  $\frac{1}{4}$ " wall x 13  $\frac{1}{4}$ ". Ship. wt. 1 lb., F.O.B. \$0.55

H1 & H2—Nickel plated oval head brass 10/32 screws x  $\frac{1}{2}$ ". Postpaid. \$0.24

K—Rheostat knob. Included with R.

M—6-Volt Factory built motor. Same as O-48 in catalog. Ship. wt. 17 lbs. F.O.B. \$8.30

N—Aluminum casting machined to take brass housing H, motor M, rheostat R, and steering handle S. Ship. wt. 2 lbs. F.O.B. \$1.35

N1—Oval head brass nickel plated 10/32 x 1" screws for holding motor M to aluminum casting N. Postpaid. \$0.24

P1—Soft iron rivet  $\frac{3}{4}$ "x $\frac{1}{8}$ ". Postpaid. \$0.05

P2—Cadmium plated pin  $\frac{5}{8}$ "x $\frac{1}{8}$ ". Postpaid. \$0.05

Q—Special cast aluminum propeller. Ship. wt. 1 lb. F.O.B. \$2.50

Q1—Oval head brass nickelled 10/32 propeller bolt and nut. Postpaid. \$0.05

R—Rheostat complete with knob. Ship. wt. 1 lb. F.O.B. \$2.75

S—Cadmium plated steering handle 6  $\frac{1}{2}$ " piece of  $\frac{1}{8}$ " O. D. tubing with a  $\frac{1}{4}$ " hole drilled 1  $\frac{1}{4}$ " from the end to take holding bolt and wing nut W. Postpaid. \$0.15

W—Cadmium plated  $\frac{1}{4}$ " wing nut and bolt. Included with S.

X—One 5 foot length of No. 8 stranded rubber covered flexible wire connecting to either battery post and direct to motor terminal.

Y—One 5-foot length of No. 8 stranded rubber covered flexible wire connecting to other battery post then to other terminal on rheostat. Includes battery clip B. Postpaid. \$0.35

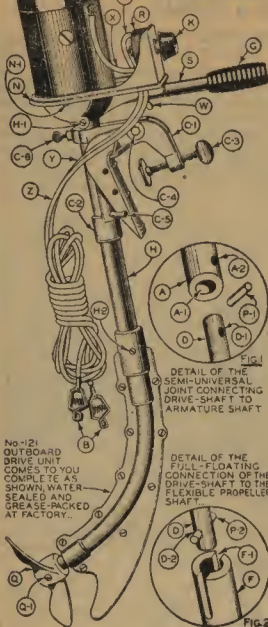
Z—One 5-foot length of No. 8 stranded rubber covered flexible wire connecting to other battery post then to other terminal on rheostat. Includes battery clip B. Postpaid. \$0.35

No. 121—Complete flexible shaft drive assembly sealed and greased at factory. Flexible shaft housed in special aluminum casting. Does not include propeller Q or bolt Q1. Comes all assembled and includes the two holding bolts H2. Ready to fit onto housing H. Is not sold in parts. Ship. wt. 2  $\frac{1}{2}$  lbs. F.O.B. \$8.60

No. 420—Complete above kit of parts. Ship. wt. 29 lbs. \$17.50

No. 421—Complete above kit, less motor. Ship. wt. 14 lbs. \$13.50

YOUR OWN MOTOR, REBUILT FROM A FORD "T" GENERATOR ACCORDING TO LEJAY PLAN... OR NO. O-48 LEJAY FACTORY-BUILT MOTOR.



No. 121 OUTBOARD DRIVE UNIT COMES TO YOU COMPLETE AS SHOWN, WATER-SEALED AND GREASE-PACKED AT FACTORY.

DETAIL OF THE SEMI-UNIVERSAL JOINT CONNECTING DRIVE-SHAFT TO ARMATURE SHAFT

DETAIL OF THE FULL-FLOATING CONNECTION OF THE DRIVE-SHAFT TO THE FLEXIBLE PROPELLER SHAFT

FIG. 2



1K12—Factory assembled LeJay Electric Outboard Motor as pictured and ready to operate. Gives practically same power and speed as No. 1K41 LeJay Electric Troller. Includes battery clips and cables. Ship. wt. 27 lbs. \$19.95

Includes battery clip B. Postpaid. \$0.35  
Z—One 5-foot length of No. 8 stranded rubber covered flexible wire connecting to other battery post then to other terminal on rheostat. Includes battery clip B. Postpaid. \$0.35  
No. 121—Complete flexible shaft drive assembly sealed and greased at factory. Flexible shaft housed in special aluminum casting. Does not include propeller Q or bolt Q1. Comes all assembled and includes the two holding bolts H2. Ready to fit onto housing H. Is not sold in parts. Ship. wt. 2  $\frac{1}{2}$  lbs. F.O.B. \$8.60  
No. 420—Complete above kit of parts. Ship. wt. 29 lbs. \$17.50  
No. 421—Complete above kit, less motor. Ship. wt. 14 lbs. \$13.50



# The New LeJay "Electrol"

## 35.95

### The Newest Thing for 1940

Streamlined in appearance and performance to meet present day demands of the most discerning sportsman. The only Electric Outboard Troller with Positive Speed Control.

Mechanical Characteristics

**VARIABLE SPEED**—an

ideal motor for trolling—just turn control to desired speed—like the dial on your radio.

**EASY TO START**—no cranking, sputtering or bucking—turn handle and you're off. Simply twist the grip—control is right in the handle.

**LOW COST**—runs 8-10 hours or more on a large 6-volt battery (which is equivalent to 2 or 3 days' use). Trolling speed drain 5 to 8 amperes.

**LIGHTWEIGHT**—only 19½ lbs.

**SPEEDS**—up to 6 miles per hour depending on voltage of battery. Operates on 6, or 12 volts—car battery.

**SAFE AND SIMPLE** to operate—any child as well as grown-up can operate this superb motor with perfect assurance and safety.

**MOTOR**—equipped with grease-sealed and Oilite bearings throughout.

**HOUSING**—Semi-floating drive-shaft, spline coupled to flexible propeller shaft.

**RUDDER**—A weedless rudder cast in one piece directly on shaft housing.

**EASILY ATTACHED** to any boat or canoe.

**No. 1K42**—LeJay "Electrol" Trolling Motor as pictured above. (Operates on 6 or 12 volts.) Shipping weight 29 lbs. F.O.B. .... \$35.95

For additional information, send stamp for bulletin EL40.

### Five Year Guarantee

Each LeJay Troller or Electric Outboard Motor is thoroughly tested and inspected before packed. Because of the durable quality we guarantee it to be free from defective materials and workmanship and to be exactly as represented. We will at any time within 5 years, from date of purchase, repair or replace any such defective or worn out part at no charge for parts or labor. A minimum charge of \$2.00 will be made for handling.

## GASOLINE SCOOTERS

The Sensational New MEAD RANGER Scooters

PRICES

BEGIN

AT

\$122.00



There's a MEAD Ranger Gasoline Scooter for every use and every purse—ten models to choose from including side car. 120 miles per gallon—30 miles per hour. For complete information and mechanical characteristics on all models, send stamp for bulletin M40.

# BRAND NEW! The LEJAY ELECTRIC ROCKET

Driven by the Sensational New "Mighty Midget" Power Plant! Operates on one or two storage batteries.

**FAST!  
CLEAN!  
SAFE!**

- Strong channel iron frame.
- Foot Brake
- Double fork of welded steel tubing.
- Finished in red enamel and black crackle.
- Air-Wheels!
- 15 M.P.H.



**BUILD IT YOURSELF!**

## The LEJAY ELECTRIC ROCKET is NOISELESS

Driven by the New LEJAY "Mighty Midget," a powerful little motor running on one or two 6 volt storage batteries, the Electric "ROCKET" fills the need for a power scooter that is clean, safe, and ECONOMICAL! Built on a sturdy frame, and riding on tough wide-tread AIR-WHEELS, this scooter provides trouble-free transportation at a fraction of the cost of similar vehicles powered by other means.

After from one to two hundred miles of "Rocketing" about for business or pleasure, the batteries can be recharged over night.

The "Rocket" is ODORLESS! Because of the absence of fumes, and because of its quiet operation, THE "ROCKET" CAN BE USED INDOORS! Also suitable for sidewalks.

The "Rocket" is VIBRATIONLESS! The power is applied smoothly, because electricity exerts a constant pull against its load.

PERHAPS THE BEST FEATURE OF THE NEW LEJAY ELECTRIC ROCKET is that YOU CAN BUILD IT YOURSELF! Buy the parts all ready to assemble. All holes are drilled, and all fitting is guaranteed. We can furnish everything. No special tools required!

No. ER6—LeJay Electric Rocket for 6 or 12 volts, complete ready to use. Less battery. Ship. wt. 75 lbs. F.O.B. .... \$47.90

No. ER6K—LeJay Electric Rocket—same as No. ER6 except in kit form. Assemble yourself and save \$8.00. Ship. wt. 80 lbs. F.O.B. Minneapolis. .... \$39.90

Recharging a 6-volt battery costs as low as 5c and can be easily done at home with a LeJay Charger described on page 9.

## Hook a LEJAY "GO-BIKE" to your BICYCLE!

Turn the control on your handle-bars and away you go!

Here's another swell job that the new LeJay "MIGHTY MIDGET" can do! It can be clamped firmly to the frame of your bicycle in its adjustable swing - cradle of welded steel. Uses the brake on your bike.

Finished in red enamel and black crackle.

Rides on one Air-Wheel.

Same fine features as the "Rocket" power plant shown above. You can build it yourself!



**No Chains!  
No Belts!  
No Gears!**

**Noiseless!  
Safe! Sure!  
12 to 15  
Miles Per  
Hour!**

No. GB6—LeJay Electric Go-Bike for 6 or 12 volts, ready to attach to your bicycle. Less battery. Ship. wt. 55 lbs. F.O.B. .... \$34.50

No. GB6K—LeJay Electric Go-Bike—same as No. GB6 except in kit form. Assemble yourself and save \$4.55. Ship. wt. 60 lbs. F.O.B. Minneapolis. .... \$29.95

The GO-BIKE can also be attached to wagons, invalids' chairs, etc. Recharging a 6-volt battery costs as low as 5c and can be easily done at home with a LeJay Charger described on page 16.





## Bicycle Motor

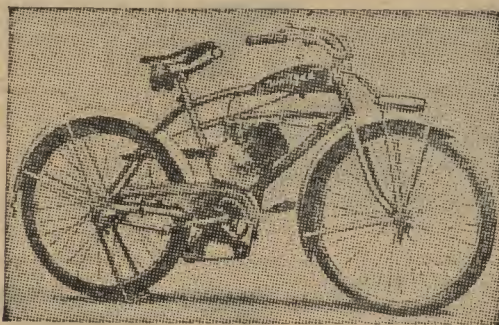
This revolutionary motor is built for only one purpose—to propel bicycles. Regardless of frame, whether single bar, double bar or curved, fits practically all bikes. Fits between planes in which pedal cranks revolve; consequently, no structural interference if wish to use pedals.

Installed on bicycle by anyone in an hour, without having to change bicycle in any way.

First four-cycle motor to be designed entirely for this one purpose; consequently vibration in bicycle frame is practically negligible. All parts are of conventional automotive design; such as float-bowl carburetor, plunger-type oil pump, etc. Entire unit has been accepted by engineers and merchandisers throughout the country as being right.

Special composition roller gets maximum of friction and minimum of wear on tire. Take average man up 18-20% grade—without assistance of pedals.

Brings new thrills and new zest to cycling for all types of workers, messengers, students and pleasure seekers.



### Outstanding Features:

1½ h.p., 2¼" bore, 2½" stroke. Motor weight 28 pounds. Other parts 13 lbs. 4-cycle, quiet and dependable. Three point spring suspension inside bike frame. Bicycle's center of gravity left undisturbed. Easy starting (valve lift on exhaust valve). Roller bearings throughout motor. Crankshaft (counter-balanced). Crankshaft, camshaft, conrod (drop steel forgings, hardened and ground). Plunger type oil pump (sight gauge to check lubrication). Float bowl carburetor (ball and socket for leveling). Conventional "V" belt drive, belt guard. 2-piece die cast motorcycle type crankcase. Adjustable and enclosed tappets. Ignition—magnets cast in flywheel. Rings—2 compression and 1 oil. Piston—lightweight aluminum alloy. Valves—alloy steel. 120 miles per gallon, 30 miles per hour. Gas tank holds ¾ gallon (oil goes in crankcase).

"Most Economical Motor Transportation in the World"

No. WH6K—Whizzer Bicycle Motor as above pictured and described. Ship. wt. 50 lbs. You pay transportation..... **\$59.95**

You pay postage on above items.

### AIR-PILOT

Air-Condition Indicator  
TEMPERATURE AND HUMIDITY  
AT A GLANCE

Know accurately the temperature and relative humidity of the air in your home. The moisture content of the air you breathe is an important factor in the condition of your health. Air that is too dry is the fundamental cause of many infections of the throat, nose, lungs, etc. Air-Pilot will help you to maintain a healthful atmosphere in your home, and in addition, it will assist you materially in cutting your heating costs. You can't afford to be without Air-Pilot.



5A11—Air-Pilot in 3" polished black case, bright red temperature and humidity pointers, legible numerals on both scales. Shipping weight, 4 ounces prepaid..... **\$0.49**

## The POWERFLO Battery-less Flashlight

Does Not Deteriorate . . . Does Not Depreciate

### NEEDS NO BATTERIES

**POWERFLO** batteryless flashlight eliminates the old troublesome expensive batteries. Operated by a patented Powerflo permanent magnet flywheel and newly developed generator field coils. A self-contained light plant.



### DEPENDABLE EVERLASTING

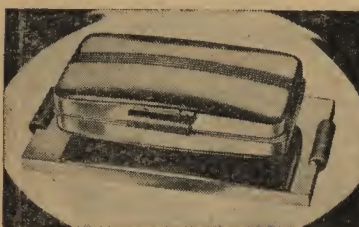
**ECONOMICAL**  
Assembled in an attractive case of moulded Tenite. Not affected by dampness. Fits in pocket, works in any position, and costs nothing to operate. Use will improve the smoothness and operation. Built to last indefinitely.

Slight Pressure On Operating Lever Gives Instant Light

**5A10—POWERFLO Battery-less Flashlight, black Tenite case.** Shipping weight, 1 pound. F.O.B. . . . . **\$3.00**  
**G. E. Mazda lamp.** Battery lasting up to 90 days costs only 5c at your local store. Translucent tips.

## POPULAR MATCHED APPLIANCES

### Sandwich Grill



Expansion hinge permits toasting thick or thin sandwiches. Use daily for grilling, frying, making pancakes, etc. With top lid laid back, a double area is available for light frying. Walnut finished handles. Drip cup supplied. Approved by Underwriters. Quick heating, high quality elements assure efficiency.

**3L80—Sandwich Grill, 600 watts. Permanent finish. 110-120V. A.C. or D.C. Less cord set Ship. wt. 5 lbs.**  
F.O.B. . . . . **\$2.75**

### Waffle Baker

Modern styling, and permanent polished chrome finish on all three of the items in this set gives them their pleasing appearance. Rich contrast is added by the handles finished in natural walnut.

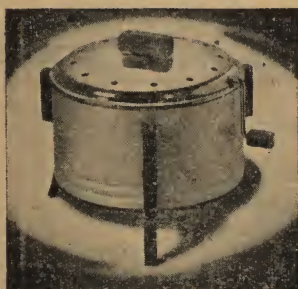
The Waffle Baker has 7 1/4" pure aluminum greaseless grids, on which two full size waffles can be quickly baked. Grids have excess batter rings. Heat indicator tells when to bake. Expansion hinge allows waffles to rise evenly. Approved by Underwriters.

**3L81—Waffle Baker. 600 watts. 110-120V. A.C. or D.C. Less cord set. Shipping weight 5 pounds. F.O.B. . . . . \$4.00**



### Electric Corn Popper

With Easy-Turn Side Stirring Handle



No more burnt fingers with this new side-handle. Hinged scraper-arm held tightly against bottom by a spring prevents corn from sticking. Nicely designed, with satin-silver body, and 3 black, heat-insulated metal legs with natural wood handles. No-burn handle on crank. Polished nickel cover. High quality heating element. Approved by the Underwriters' Laboratories.

**3L94—Electric Corn Popper, 350 watts. For 110-120V. A.C. or D.C. Without cord set. Shipping wt. 4 lbs. F.O.B. . . . . \$1.45**

### YARD LIGHT

A weatherproof outdoor bracket fixture with 10" flat cone shade, heavily galvanized steel pipe gooseneck, large cast iron flange, and glazed porcelain socket. The shade is stamped from heavy 24 gauge steel. The unit is wired complete, ready to install, and bears the seal of approval of the Underwriter's Laboratories.

**No. 760—Yard Light with 2 lag screws. Ship. wt. 4 1/2 lbs. F.O.B. \$1.80**



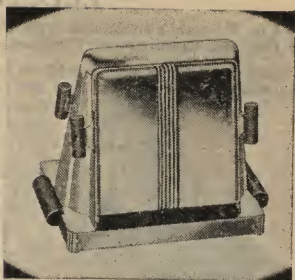


### Turn Over Toaster

This toaster is completely enclosed. The largest slices of bread can be toasted quickly and evenly, because there is no chance for the heat to escape. Opening spring-equipped doors automatically turns toast. Finished to match Waffle-Baker and Grill.

Order this attractive, inexpensive toaster today and let it be your start toward acquiring all three of the items in the set.

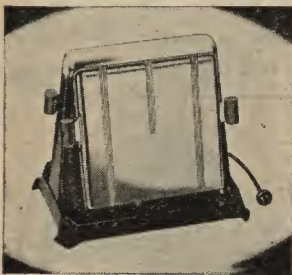
3L82—Turn Over Toaster. 600 watts 110-120V. A.C. or D.C. with switch plug and cord. Ship. wt. 5 lbs..\$2.65  
No. 3L82—Less Cord .....\$2.25



### Bargain Toaster

A popular, well-built "turn-over" at a bargain price. High quality mica and nickel chromium heating elements will toast 2 slices quickly and evenly. Cool black handles on lustrous chrome plated doors, spring-equipped to automatically turn toast when opened. Satin black sides and base. Cord and plug attached. Non-scratch rubber feet. Approved by Underwriters.

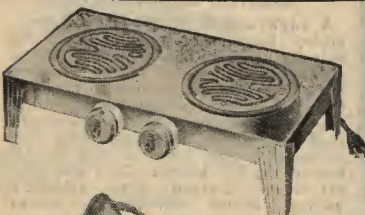
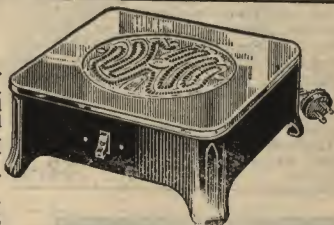
3L85—500 watt BARGAIN TOASTER for 110-120V. A. C. or D.C. with cord and plug. Ship. wt. 3 lbs.....\$1.50



### Modernistic Hot Plate

High quality 5 3/4" heating element gives quick, intense heat. Round cornered polished nickel top is 8 3/4" square. Body and legs are black enameled. On-and-off snap switch. Cord and plug attached. 550 watts, 110-120V. A.C. or D.C.

3L62—HOT PLATE. Shipping weight 5 lbs.....\$1.55



### Electric 2-Heat Stove

2 single-heat burners. On-off snap switch for each burner. All polished nickel finish. Light weight, easily portable. 4 1/2" high, 9"x18" top, 5 3/4" burners, each using 550 watts, cord and plug attached. Approved by Underwriters. For 110-120V. A.C. or D.C. operation.

3L63—Electric STOVE. Ship. wt. 6 lbs.....\$2.90

### Quality Electric Heaters

There is a need in every home for one of these fine heaters. Listed as Standard, by the Underwriters' Laboratories, they may be accepted by the purchaser as safe, economical, and satisfactory merchandise in every respect

#### 10" Chrome Radiant Reflector Heater

An exceptionally beautiful heater. Panelled chrome reflector bowl, highly polished inside. Outside of bowl, and cast streamlined base finished in metallic pearl green lustre. High quality element is removable. Heavy wire guard fitted inside rolled edge of reflector bowl.

3L60—RADIANT REFLECTOR type heater. 110-120V. 645w. A.C.-D.C. Ship. wt. 4 lbs. ....\$1.50

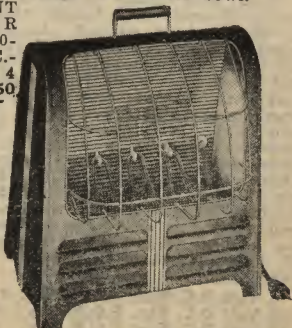


### Electric Cabinet Type CIRCULATING GLOW HEATER

Converts all current used into heated air in two ways. A polished chrome reflector supplies a flood of reflected heat. Also operates like a furnace to draw cool air off the floor heat and circulate it throughout the room without the aid of a fan. Brown bronze wrinkle finish. Trim, carrying handle, and wire guard are chrome.

3L61—ELECTRIC HEATER, 1000 watts, 110-120V. A.C. or D.C. Height 12 3/4", width 11 1/2", depth 7 1/2". Ship. wt. 8 lbs.....\$4.85

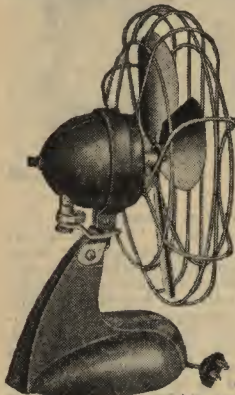
You pay postage on all above items.



## ELECTRIC FANS

- For Proper Ventilation and Humidity Control . . .
- For Air-Conditioned Pleasantness Throughout the Year . . .

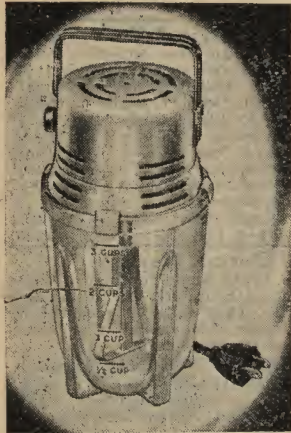
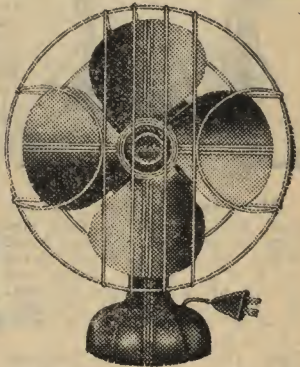
\*Each home and office will enjoy one or more of these fine fans as permanent equipment, for the added comfort they can bring.



**8" DeLUXE, Non-Oscillating Fan**  
Streamlined. Finished in green metal lustre. Heavy nickel guard. Over-size, nicked fan blades. "ON-OFF" switch. Heavy cast base. Rubber feet. Hinge for tilting. 110-120V. motor, 60 cycle A.C. ONLY. Self-aligning oil-impregnated bearings. Long life, quiet, efficient. No radio interference. Cord and plug. Approved by Underwriters.  
**3L51—8" DeLUXE Non-Oscillating Fan.** Shipping weight 7 pounds . . . . . **\$2.45**

**\*Our Ten Inch STANDARD Value Special!**  
The finest value ever offered in a 10" oscillating fan. Rich olive green crackle finish, with polished nickel fan blades. Heavy nicked wire guard of modern design. "OFF-ON" switch on back of motor-housing bell. Hinge and wing-nut adjusts tilt of fan. Heavy cast metal base with non-slip rubber feet. Powerful motor with self-aligning bearings, oil-impregnated for long life and quiet running. Latest improved oscillating action, instantly adjustable to any arc or stationary position. No radio interference. Approved by Underwriters. Rubber cord and plug. 110 volts A.C. only.  
**3L50—10" STANDARD One-Speed Fan.** Oscillating. Ship. wt. 11 lbs. **\$5.80**

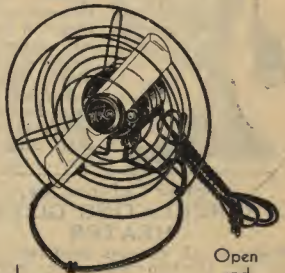
LeJay's  
Price  
Special



### Electric Liquid Mixer

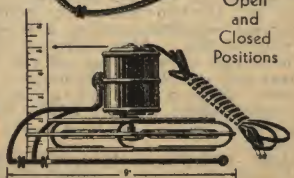
**A Lightweight Kitchen Appliance**  
Every housewife will enjoy using this unusually handy item. Whips cream, beats eggs, mixes gravies, icings, omelettes, malted milks, etc. Clear glass graduated bowl. 24 ounce capacity, designed for speed and efficiency. Motor Mixer assembly can be used in any bowl or pan. Nickel plated top lift handle. Cord and plug attached. Button type ON-OFF switch. Motor finished in glossy white enamel. Agitator easily removed for cleaning. No radio interference. Approved by Underwriters.  
**3L90—Electric Liquid Mixer** 110-120V. A.C. 50-60 cycles ONLY. Ship. wt. 5 lbs. . . . . **\$2.65**

### McKAY UTILITY FAN



Built with many exclusive features. Conveniently hangs, stands, or folds where needed. Is light, compact, exceptionally well designed for structural strength, long wear and economical operation — draws very little current. Soft rubber feet prevents creeping. Has smooth running motor, turning an eight inch propeller type blade that concentrates and directs the air delivery. This is a general purpose fan. Keep cool during the hot summer days. Connect this fan to your windcharger battery and enjoy the invigorating breeze produced by the broad 8" blade. Also very efficient for ventilating.

**6 Volt D.C. Fan. F.O.B. Fty.. \$3.95**  
**12 Volt D.C. Fan. F.O.B. Fty.. 4.95**  
**32 Volt D.C. Fan. F.O.B. Fty.. 4.95**  
**110 Volt A.C. Fan. F.O.B. Fty.. 4.75**



Open  
and  
Closed  
Positions

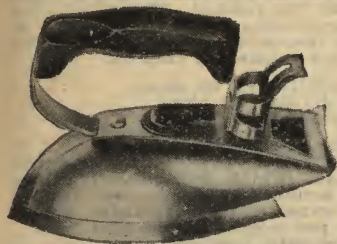
You pay postage on all above items.



# ELECTRIC HOUSEHOLD APPLIANCES

## Super-Streamlined Electric Irons

Three great values, every one listed as Standard by the Underwriters Laboratories. Gleaming, polished surfaces, large comfortable handles, and sturdy tip-up back rests on all models add to the satisfaction you will find in owning whichever one of these fine irons you decide to have. Perfect balance for easier ironing.



### Automatic DeLuxe Iron

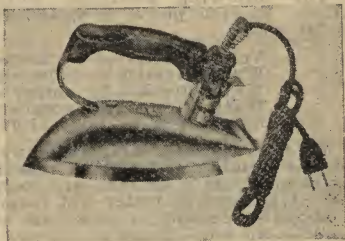
Completely automatic. Maintains exact temperature indicated by finger-tip control lever, which advises proper heat to use for all fabrics. Complete "OFF" position on control lever. Has no projections to catch on garments or lacy materials. Weight 4½ lbs. Full household size. Large black carved handle with integral thumb rest. Full chromium finish.

3L70—1000 Watt. AUTOMATIC DeLUXE IRON, 110-120V. A.C. only. Less cord set. Ship. wt. 6 lbs.....\$4.25

### Heat Indicator Iron

The Heat Indicator dial on this iron shows when the iron is at the proper temperature for the different fabrics to be ironed. When used with a Cord Set having a Switch in the appliance plug, the required heat for a particular material is easily maintained. Full household size. Perfectly balanced. Polished chromium finish. Ebonized carved handle with integral thumb rest to relieve wrist strain. Tip-up heel rest eliminates the necessity of lifting.

3L71—600 Watt. HEAT INDICATOR IRON, 110-120V. A.C. or D.C. Less Cord Set. Ship. wt. 5½ lbs.....\$2.25



### Super-Streamlined Iron (Non-Automatic)

The finest value in the low-priced field. Full household size. A fine heating element provides quick, even heat. Perfectly balanced for easy ironing. Large comfortable handles. Sturdy tip-up back rest eliminates lifting. The large sole plate is nicely bevelled, and there are no projections to catch on any sort of material.

3L72—550 Watt. SUPER-STREAMLINED, Non-Automatic Iron. 110-120V., A.C. or D.C. Less Cord Set. Ship. wt. 5½ lbs.....\$1.50

SWITCH-PLUG and STANDARD Plug and Cord Sets for above Irons.

3L7S—SWITCH Plug and Cord Set. Ship. wt. 1 lb.....\$0.40

3L7X—STANDARD Plug and Cord Set. Ship. wt. 1 lb......30



### Electric Ice Cream Freezer

Deliciously smooth and creamy ice cream and other frozen desserts are easily made in an electric freezer. Silvered dome encloses motor and gear assembly. Brackets, handles, and inside of wood bucket are finished in satin silver. Outside of wood bucket is finished in Pearl Green Metallic. Comes complete with heavily tinned cream can, cast iron cover, and self-adjusting wood paddles. Heavy rubber cord and plug. 110-120V. 50-60 cycles A.C. only.

3L91—Electric FREEZER, 2 Qt. Ship. wt. 15 lbs.....\$10.00

3L92—Electric FREEZER, 4 Qt. Ship wt. 22 lbs..... 14.25

3L93—Electric FREEZER, 6 Qt. Ship. wt. 28 lbs..... 20.00



You pay postage on all above items

## GENERAL INFORMATION

The following information is given with the idea of helping users and builders of home electrical plants.

### VOLTS, AMPERES, OHMS

The three common units of electricity are volts, amperes and ohms. For our purpose it does not matter so much how they were first established as it does to understand clearly what they mean and how they are related. The volt is the unit of electrical pressure, the ampere is the unit of rate of current flow and the ohm is the unit of resistance to the flow of current. These units are related as follows:

Volts equal amperes multiplied by ohms.

Amperes equal volts divided by ohms.

Ohms equal volts divided by amperes.

These electrical units can be compared to the units used in speaking of a water supply system. The volt corresponds to the pressure per square inch which is indicated on the pressure gauge, as 40 lbs. per square in. The ampere corresponds to the rate at which water is forced into or drawn out of the tank, as 5 gallons per minute. Note that it is rate of flow, as gallons per minute, and not a quantity of water, as 5 gallons. The ohm corresponds to the resistance which the pipe offers to the flow of water.

The following electrical units are derived from those above. Electric power is measured in watts. One horsepower is 746 watts.

Volts multiplied by amperes equal watts.

Watts divided by volts equal amperes.

Watts divided by amperes equal volts.

Watts times the number of hours gives the watt-hours or K.W. hour (1,000 watt hours).

To determine the ampere hours multiply the ampere draw by the number of hours of this draw. Ampere hours put in or taken from a battery are to be compared with the number of gallons of water put in or taken from a water tank.

Maximum capacity of all 32 volt generators described herein are based at 40 volts—hence 25 amperes at 40 volts equals 1000 watts.

The following table shows approximate ampere draw for various electrical appliances and power equipment.

	Amp. at 6 Volts	Amp. at 32 Volts	Amp. at 110 Volts
1/2 H.P. Motor.....	....	18.0	4.85
1/4 H.P. Motor.....	....	9.1	2.49
1/6 H.P. Motor.....	33.2	6.8	1.84
1/8 H.P. Motor.....	24.8	5.0	1.35
1/10 H.P. Motor.....	13.3	2.8	.74
Fan Motor, 16 in.....	9.8	2.0	.50
Fan Motor, 12 in.....	7.8	1.5	.44
Fan Motor, 9 in.....	4.9	1.0	.25
Washing Machine .....	33.0	6.6	1.80
Sewing Machine Motor.	3.2	.7	.18
Pump Motor			
150 gal. per hr.....	29.9	6.5	1.80
Vacuum Cleaner, small.	19.	4.0	1.10
Vacuum Cleaner, med...	29.5	6.5	1.80
Coffee Percolator .....	....	15.5	4.00
Disc Heater .....	....	15-20	4.0-5.40
Grill .....	....	19.0	5.40
Toaster .....	....	16.0	4.30
6 lb. Flat Iron.....	....	18.0	5.0
Soldering Iron .....	15.0	3.2-6.5	.90-1.80

### BATTERY WILL FREEZE

Electrolyte is not very easily frozen, but if the battery is permitted to run down as low as 1.100 specific gravity, it will freeze at about 20 degrees Fahrenheit above zero.

At 1.125 the Electrolyte will freeze at 10 degrees above zero.

1.150 specific gravity will freeze at about 5 degrees above zero, but above this, or 1.200, the battery will not freeze until it is 10 to 16 degrees below zero, and 1.225 specific gravity, 35 degrees below zero.

### WIRING

In wiring buildings, it is important that wire of the proper size be used, because if an undersized wire is used the drop in voltage and current because of the resistance of the light wire will become tremendous. Below is a table which will act as a guide only in the size of wire to be used. This table shows the number of feet from the battery or generator and the size of wire recommended for the various distances:

Maximum distance in feet that wire will carry charging current with 1 volt drop:

No. Ft. of Distance.....	25	50	75	100	150	175	200
Wire Size No.....	10	10	8	6	6	4	4

**LEJAY MANUFACTURING CO.**



# PLANS For Making Your Own Electrical Items

By using these simple, practical LeJay plans you can easily have electric current generated by the wind. The first cost is very small and the operating cost is hardly anything. Anybody with but a



slight knowledge of mechanics and with ordinary tools generally owned by everybody should be able to follow these plans and instructions with no trouble whatever.

These plans are sold separately at following prices or all together in book form for \$1.06. Each plan is complete with simplified drawings and instructions. No special tools are needed for changes.

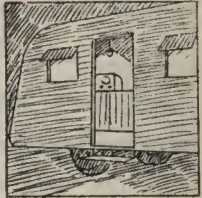


## Description

**No. 1—110 Volt A.C. 150-200 Watt Light Plant Generator made from Ford model "T" frame. Produces enough power to light 6 or 7 of the 25 watt size bulbs and radio or about 8 bulbs with- Coin, 25c**

A 25 watt bulb gives about 5 times the illumination as that of the regular kerosene lantern.

**No. 2—110 Volt A.C., 200 Watt Variable Speed Generator from a Ford Powerhouse frame. Designed for auto fan belt operation to run mid-gest radios in car; sound equipment; lights and radio at camp or in cottage; house trailers equipped with lights and radio to operate while moving or standing. Plan complete ..... Coin, 20c**



**No. 3a—6 Volt Slow Speed Generator from Ford Powerhouse frame. Cuts in around 375 r.p.m. and delivers up to 10-12 amperes. Designed for wind propeller direct drive. Will charge up to two 6 volt batteries at one time.**

**No. 3b—6 Volt Slow Speed Generator from Powerhouse with 300 r.p.m. cut-in and 8-10 ampere maximum.**

**No. 3c—Tower, Turntable, Fin and complete direct driven plant made from scrap parts found on most farms. Shows simple and efficient method of power transfer from generator turntable to battery.**

**No. 3d—6 Foot Propeller easily cut from clear pine stock. All dimensions, pitch and curves. Especially designed for the 6 volt standard generators.**

**No. 3e—7 foot Propeller for 6, 12, 32V Dodge generators, etc.**

**No. 3f—8 Foot Propeller like (d) only designed for 6, 12 and 32 volt large generators. Plan includes 3a, 3b, 3c, 3d, 3e, 3f. Coin, 10c**

**No. 3g—10 Foot Propeller for LeJay High Speed Drive Unit and other wind plants using a reduction drive.**

**No. 4a—12 Volt Slow Speed Generator from Dodge generator. Cuts in about 290 r.p.m. and delivers up to 25 amperes. For direct drive propeller and will charge up to four 12 volt batteries at one time.**

**No. 4b—12 Volt Extra Slow Speed Generator from Dodge with cut-in about 215 r.p.m. and delivers 25 amperes.**

**No. 4c—6 Volt Slow Speed Generator from Dodge 12 volt generator. Cuts in around 290 r.p.m. and delivers up to 35 amperes. For direct drive propeller. Will charge up to six of the 6 volt batteries at one time.**

**No. 4d—6 Volt Extra Slow Speed Generator from Dodge, cuts in about 175 r.p.m. and delivers 35 amperes.**

**No. 4e—6 Volt Slow Speed Generator from other standard 6 volt auto generators. Starts to generate around 350 to 475 r.p.m. and delivers up to 15 amperes. For wind propeller direct drive. Will charge up to three batteries at once.**

Plan includes 4a, 4b, 4c, 4d, 4e. .... Coin, 35c

**No. 5a—32 Volt Slow Speed Generator made from 12 volt Dodge generator. Starts to generate between 340 and 375 r.p.m. and delivers up to 14 amperes between 775 and 875 r.p.m. Especially designed for wind propeller direct drive.**

**No. 5b—32 Volt Slow Speed Generator from Dodge with cut-in about 270 r.p.m. and delivers 15 amperes.**

Plan includes 5a, 5b. .... Coin, 35c

\*\*\*\*\*

Add 3c Postage on All Above Plan Orders

All Above Plans Are In the Manual (See Back Cover)

## PLANS CONTINUED

**No. 6a—32 Volt Constant Speed Generator** made from the 12 volt Dodge generator. Delivers about 20 amperes at 1100 r.p.m. Designed for engine drive, or wind plant with 4 to 1 reduction drive.

**No. 6b—32 Volt  $\frac{1}{2}$  H.P. Motor** made from the old 12 volt Dodge generator. Develops  $\frac{1}{2}$  H.P. at 1800 r.p.m. Plan shows how to use a speed control.

**No. 6c—110 Volt D.C. Light Plant Generator** from Dodge generator. Can be used as wind plant with reduction drive of  $2\frac{1}{2}$  to 1.

**No. 6d—110 Volt D.C.  $\frac{1}{2}$  H.P. Motor** from the Dodge generator. Plan includes 6a, 6b, 6c, 6d. .... Coin, 35c

**No. 7a—Bench Grinder or Buffer** for 32 volts D.C. or 110 volts A.C. or D.C. Made from the old Ford model "T" or other standard 6 volt generators.

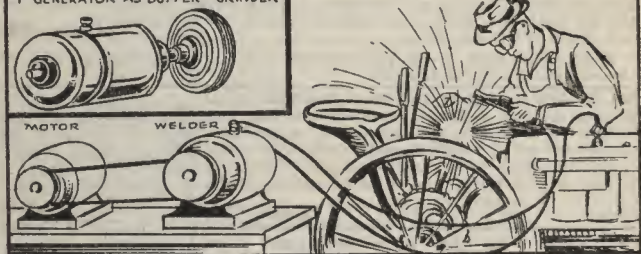
**No. 7b—High Speed Series Motor**, 110 volts A.C. with speed control and made from the standard 6 volt automobile generators. For intermittent use, short periods only. Not a continuous duty motor.

**No. 7c—Constant Speed Motor**, 110 volts A.C., made from standard auto generators. For intermittent use, short periods only. Not a continuous duty motor.

**No. 7d—Universal A.C. or D.C. Motor**, made from standard 6 volt auto generators. For intermittent use, short periods only. Not a continuous duty motor.

**No. 7e—A Soldering Iron** that will work on 6, 12 or 32 volt storage batteries and made from scrap parts. Very efficient. Plan includes 7a, 7b, 7c, 7d, 7e. .... Coin, 25c

"T" GENERATOR AS BUFFER-GRINDER



**No. 8—Arc Welder** made from Dodge 12 volt generator. Plan also shows how to operate single or dual welders. One welder produces 75-125 amperes—dual welder produces over 200 amperes. Single job takes rods up to  $\frac{3}{16}$ ". Dual job takes rods up to  $\frac{1}{2}$ ". How to build reactor and rod holder is also shown. Plan complete ..... Coin, 35c

**No. 9—Electric Fence Control.** Costs nothing to build. Operates from 6, 32 or 110 volt battery. Uses very little current. Easy to build and saves up large sums in fence costs. No gate to make—posts every 2 or 3 rods—holds livestock—even hogs will not root under—change fences in hurry. Plan gives all details. Complete. .... Coin, 10c

**No. 10a—6 Volt Slow Speed Generator** made from an old Ford model "T" generator. Made for wind propeller direct drive. Starts to generate about 375 r.p.m. and delivers up to 12 amperes. Will charge up to three batteries.

**No. 10b—6 Volt Slow Speed Generator** made from an old Ford model "T" generator. Same as (a), only starts to generate between 300 and 325 r.p.m. and delivers up to 10 amperes.

**No. 10c—6 Volt Slow Speed Generator** from Ford "T" with cut-in at 290 and 15 ampere output. Tells how to make special LeJay designed DeLux field coils as used in our No. 1405 generator.

**No. 10d—6 Volt Slow Speed Generator** from Ford "T" with cut-in at 275 and 10 ampere output.

**No. 10e—6 Foot Direct Drive Propeller** easily cut from clear pine stock. All dimensions, pitch and curves. Especially designed for the 6 volt standard generators.

**No. 10f—8 Foot Direct Drive Propeller** like (d) only designed for 6, 12 and 32 volt large generators.

**No. 10g—7 Foot Direct Drive Propeller** for 6, 12, 32V Dodge generators, etc.

**No. 10h—10 foot propeller** for LeJay High Speed Drive Unit, and other wind plants using a reduction drive.

**No. 10i—Complete Plans** for Direct Drive 6 Volt Wind Plant. Shows how to build tower, turntable, fin and efficient method of power transfer from generator turntable to battery. Especially designed for the "T" generator and all other standard 6 volt generators. Plan includes 10a, 10b, 10c, 10d, 10e, 10f, 10g, 10h. .... Coin, 35c

**No. 11—110 Volt A.C. 750 Watt Light Plant Generator** made from the old Dodge generator. Produces enough current to light 27 of the 25 watt size bulbs and an electric radio or about 30 bulbs without radio. Will operate small motors of  $\frac{1}{2}$  H.P. or smaller. Plan complete. .... Coin, 35c

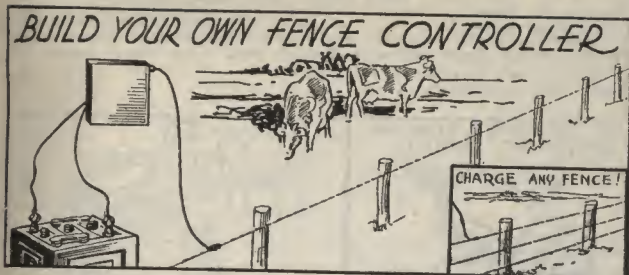
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## PLANS CONTINUED



**No. 12—B Eliminator for your battery radio.** Makes your radio an all electric and operates entirely from the 6 or 32 volt batteries. Plan complete..... Coin, 25c

**No. 13—Generator Booster Control for your automobile generator** when operating the car radio, hot water heater, etc. Boosts the charging rate for these extra loads without 3rd brush adjustment. Also cuts generator down to low charge for daytime driving if battery is fully charged. Plan complete..... Coin, 20c

**No. 14—6 Volt Slow Speed Generator made from Ford model "A," Chevrolet Standard, Pontiac, Plymouth and all other 14 slot 28 bar Autolite or Delco-Remy generators.** Cuts in around 420 r.p.m. and delivers up to 8 amperes. Designed for wind propeller direct drive. Plan complete..... Coin, 15c

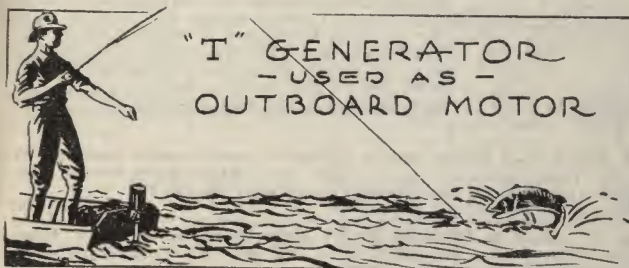
**No. 15—32 Volt Constant Speed Generator made from Ford "T" generator.** Delivers about 5 amperes at 1250 r.p.m. Designed for engine drive. Plan complete..... Coin, 25c

**No. 16—2 Volt Slow Speed Generator made from Ford model "A," Chevrolet Standard, Pontiac and other 14 slot 28 bar Autolite or Delco-Remy generators.** Cuts in around 350 r.p.m. and delivers up to 10 amperes. Designed for wind propeller direct drive. Plan complete..... Coin, 15c

**No. 17—2 Volt Cut-Out from the standard 6 volt cut-out to be used on 2 or 6 volt generators for charging the 2 volt radio batteries.** Plan complete..... Coin, 10c

**No. 18—Information on how to rebuild batteries by using new plates or new insulators.** Oftentimes batteries are rendered useless because of shorted plates due to separators worn through and positive plate touching a negative plate. Plan compl.... Coin, 25c

**No. 19—Water Wheel made from automobile parts and suitable for running generators for light plant use.** Plan complete ..... Coin, 20c



**No. 20a—6 Volt Outboard Motor from Ford "T" generator.** Operates from 8 to 12 hours on ordinary storage battery.

**No. 21—Gasoline Engine or Motor Driven Generator Hook-Up showing how any auto generator can be driven for charging batteries** Shows how to connect generator cut-out, ammeter, fuse and battery. Motor or engine driven. Complete plan.... Coin, 10c

**No. 22—Armature Growler easily made from an old auto generator for purpose of testing auto or slow speed armatures.** Plan shows all diagrams, how to wire in test light, switch and test prods. Plan complete..... Coin, 15c

**No. 23a—32 Volt Series Motor from Dodge 12 volt generator with-out rewinding field coils or armature.** 2700 r.p.m. speed.

**No. 23b—32 Volt High Speed Series Motor from Dodge without rewinding.** ½ H.P. at 1800 r.p.m. and capable of 4200 r.p.m. Plan includes 23a, 23b..... Coin, 25c

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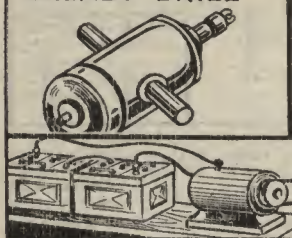
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## PLANS CONTINUED

No. 24—32 Volt Heavy Duty Motor from Dodge 12 volt generator. Capable of handling heavy loads for an indefinite period. Plan complete. Coin, 25c

No. 25—Bench Drill and also Breast Drill from Ford model "T" generator. Can be made to work on either 6, 12 or 32 volts. Plan complete. Coin, 15c

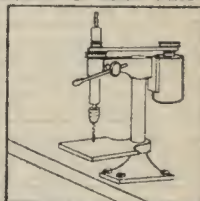
"T" GENERATOR AS BREAST DRILL



No. 26—6 Volt Motor from Ford model "T" suitable for some washing machines, drill press, grinding, etc. Plan complete Coin, 15c

No. 27a—12 Volt Motor from Ford model "T" generator suitable for washing machine, drill press, grinding, pumping, etc.

No. 27b—32 Volt Motor from Ford model "T" suitable for washing machine, drill press, grinding, pumping, etc. Plan includes 27a, 27b. Coin, 25c



No. 28a—110 Volt A.C. Motor from Ford Powerhouse generator without rewinding field coils or armature. Speed 1600 r.p.m. and for intermittent light duty, short periods only.

No. 28b—6 Volt Slow Speed Generator from Dodge generator, using original armature but with new field coils. Cut-in speed 350-450 r.p.m. Maximum 35 amperes output.

No. 28c—General Information on what you should know—excellent for the beginner. Shows how to wind generators, test armatures, how to connect batteries in series or parallel, how to connect field coils in series, series parallel and parallel, how to make winding forms for field coils—tells about motorizing also shows a complete schematic diagram how ammeter, cutout fuse and batteries are connected to generator. 12 pictures are included Plan includes 28a, 28b, 28c. Coin, 25c



No. 29—Transformer Arc Welder for use on 110 volts A.C. Will handle  $\frac{1}{8}$ ",  $\frac{3}{32}$ ",  $\frac{1}{4}$ " and  $\frac{5}{16}$ " rod and is capable of welding up to  $\frac{1}{4}$ " thick materials. This arc welder is simple and easy to build. Plan gives completely all details, how to wind coil, cut laminations, assemble, etc. Plan complete Coin, 35c

No. 30—A Spot Welder that is capable of spot welding materials up to  $\frac{1}{4}$ " thick. Operates on 110 volts A.C. Plan shows how to construct transformer, stand, handles and electrode points. Plans complete Coin, 35c

No. 31—Complete Plans for Heavy Duty Wind-Driven Plant. Especially designed for use with 6, 12, and 32 volt Dodge generators. Shows how to make tower, turntable, collector ring, vane assembly and rewind Dodge generator for 32 volts. This is one of the most up-to-date and complete plans offered today. Easy to follow and build, also shows how to make a 7 or 8 ft. propeller. Plan complete Coin, 50c

No. 32—A Spot Welder that is capable of spot welding two pieces iron 22 gauge or lighter. Heavier materials under favorable conditions. Operates from car battery. Full charge makes over 1000 welds. Very simple construction from materials available on any farm or workshop. No expense to build. Plan complete Coin, 35c

I am building windchargers that I learn to make from your Manual, and they work so good I have to get a place larger to give my customers all the windchargers they want.

Wilfred Degrandpre,  
St. Germain de Grantham, Quebec, Canada.

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## PLANS CONTINUED

**No. 33—How to rewind Autolite, Bosch Autolite or Bosch generators for regular automotive or for slow speed windcharger. A—12 slot 24 bar plan. B—14 slot 28 bar plan. C—17 slot 33 bar plan. Plan includes A, B, C..... Coin, 25c**

**No. 34—How to rewind Delco, Delco-Remy or Remy generators for regular automotive or for slow speed windcharger. A—21 slot 43 bar. B—25 slot 25 bar. C—16 slot 31 bar. D—14 slot 28 bar. E—17 slot 34 bar. F—19 slot 19 bar. G—19 slot 38 bar. H—13 slot 26 bar. I—26 slot 26 bar. J—16 slot 32 bar. K—15 slot 30 bar. Plan includes A, B, C, D, E, F, G, H, I, J, K... Coin, 25c**

Notice: This plan does not include the 14 slot 28 bar winding information for slow speed. Refer to plan 14 for this information.

**No. 35—How to rewind Ford "A," "B" and V-8 models for regular automotive or for slow speed windcharger. All are 14 slot 28 bar type. Plan complete..... Coin, 25c**

For slow speed, see plan number 14.

**No. 36—How to rewind Northeast generators for regular automotive or for slow speed windcharger. A—25 slot 25 bar. B—25 slot 49 bar. C—15 slot 29 bar. D—17 slot 34 bar. E—13 slot 26 bar. F—14 slot 28 bar. Plan includes A, B, C, D, E, F..... Coin, 25c**

**No. 37—How to rewind Atwater-Kent generators for regular automotive or for slow speed windchargers. A—14 slot 35 bar. B—22 slot 38 bar. Plan includes A, B..... Coin, 25c**

**No. 38—How to rewind Dyneto generators for regular automotive or for slow speed windcharger. Plan covers the 20 slot 41 bar generator only. Plan complete..... Coin, 25c**

**No. 39—How to rewind Leece-Neville generators for regular automotive or for windcharger use. A—27 slot 53 bar. B—27 slot 27 bar. C—15 slot 29 bar. D—20 slot 39 bar. Plan includes A, B, C, D..... Coin, 25c**

**No. 40—How to rewind Wagner generators for regular automotive or for slow speed windcharger. A—10 slot 20 bar. B—11 slot 22 bar. C—15 slot 29 bar. D—8 slot 16 bar. E—8 slot 24 bar. Plan includes A, B, C, D, E..... Coin, 25c**

**No. 41—How to rewind Westinghouse generators for regular automotive or for slow speed windcharger. A—21 slot 41 bar. B—25 slot 49 bar. C—25 slot 25 bar. D—17 slot 34 bar. Plan includes A, B, C, D..... Coin, 25c**

**No. 42—How to install lights on your tractor by using old auto generator. No rewinding necessary. Perfect control. Plan complete..... Coin, 25c**

**No. 43—A Bug Killer that really kills all bugs, flies, beetles and other insects. Made for operating on 110 volts A.C. only. This electrocutor will not work on 6, 12 or 32 volts. Easily made in few hours' time. All details clearly given. Plan complete..... Coin 35c**

**No. 44—An Electric Scooter made from old "T" generator and other parts. Operates on either 6 or 12 volts. Carries a 175 pound man up to 15 miles per hour. Goes 50 to 75 miles on one battery charge. All details clearly given. Plan complete... Coin, 25c**

**No. 45—An Electric Bicycle Pusher made from old "T" generator and other parts. Operates on 6 or 12 volts. Pushes a 175 pound man up to 10 miles per hour. Goes 50 to 75 miles on one battery charge. All details clearly given. Plan complete... Coin, 25c**

**No. 46—A Carbon Electrode Welder operates from 6 volt storage battery for light duty welding, brazing and soldering. Like our welder No. 35WK. Plan gives all details, also shows motor generator hook-up for extra power. Plan complete.. Coin 10c**

**No. 47—A Ball Bearing Electric Fence Controller made from auto coil. Easily constructed. Strong shock with interval adjustment. No extras needed. Plan complete..... Coin 10c**

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**See Back Cover for Further Details**

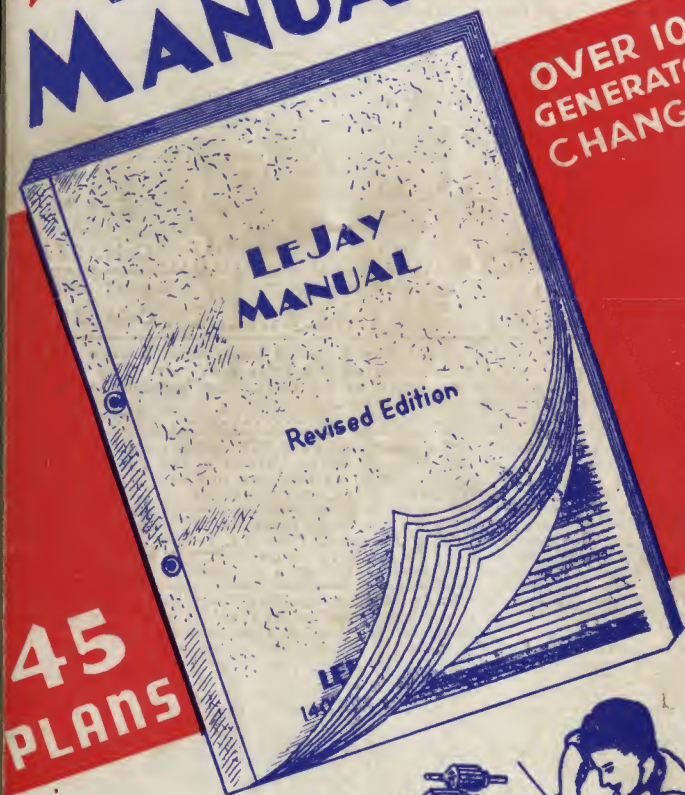
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